

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Trade name: Bausch Arti-Spray® (white)
REF: BK 285
Product group: Occlusion sprays
Version: 005 / EN

Revision date: 2024-05-29

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

1.1 Product identifier

Product form Mixture
Trade name Bausch Arti®-Spray BK 285
Product use Universal color indicator to test the occlusal contacts and accurate fit of crowns and bridges.

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses

Function or use category Coating

1.2.2 Uses advised against

Restrictions on use no intraoral application, for professional use only

1.3 Details of the supplier of the safety data sheet

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E-mail address (competent person) pb@bauschdental.de
Contact person for information Peter Bausch (CEO)
National contact person Peter Bausch (CEO)

1.3 Emergency telephone number

Peter Bausch (CEO) Telephone +49 (0)221-70936-20, Mobil +49 (0)172-2601451

Section 2: Hazards identification

2.1. Classification of the substance or mixture

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

Physical hazards	Aerosol, Category 1	H222; H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Environmental hazards	Hazardous to the aquatic, Environment, Chronic Hazard Category 3	H412	Harmful to aquatic life with long lasting effects.

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

Adverse physicochemical, human health and environmental effects

Pressurised container: May burst if heated. Extremely flammable aerosol.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008

Hazard pictograms



Signal word

Danger

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Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P273 Avoid release to the environment.

Storage

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Disposal

P501 Dispose of contents and container to an approved waste disposal plant.
EUH statements EUH211 - Warning! Hazardous respirable droplets may be formed when sprayed.
Do not breathe spray or mist.

2.3 Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0.1 %.

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Section 3: Composition/information on ingredients

3.1 Substances

The product is a mixture.

3.2 Mixtures

Chemical name	CAS- No EG- No Index- No RRN	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Notes
Butane	106-97-8 203-448-7 601-004-00-0 01-2119474691-32-XXXX	65 - < 70	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	(Note C) (Note U)
Propane	74-98-6 200-827-9 601-003-00-5 01-2119486944-21-XXXX	15 - < 20	Flam. Gas 1A, H220 Press. Gas (Comp.), H280	(Note U)
Pentane	109-66-0 203-692-4 601-006-00-1 01-2119459286-30-XXXX	10 - < 14	Flam. Liq. 1, H224 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411	# (Note C)
Ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43-XXXX	1 - < 2	Flam. Liq. 2 H225	

Comments -

#: substance with a Community workplace exposure limit Note: Regulation No. 1272/2008 - Annex VI

C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

U: (table 3.1): When put on the market gases have to be classified as 'Gases under pressure', in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case.

Product subject to CLP Article 1.1.3.7. The disclosure rules of the components is modified in this case. Full text of H- and EUH-statements: see section 16.

Section 4: First aid measures

4.1 Description of first aid measures

First-aid measures general	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
First-aid measures after inhalation	Remove person to fresh air and keep comfortable for breathing. Call a physician if symptoms develop or persist.
First-aid measures after skin contact	Wash skin with plenty of water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Immediately call a physician. Rinse mouth. Do not induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects Direct contact with eyes may cause temporary irritation.

4.3 Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Symptoms may be delayed.

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Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Dry chemical, CO₂, dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture

Fire hazard Extremely flammable aerosol.
Explosion hazard Pressurised container: May burst if heated.
Reactivity in case of fire In the event of fire hazardous gases may occur.
Hazardous decomposition products in case of fire Carbon dioxide. Carbon monoxide. Nitrogen oxides.

5.3 Advice for firefighters

Firefighting instructions Move container from fire area if it can be done without risk. Use water spray or fog for cooling exposed containers.
Protection during firefighting Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear fire/flamm resistant/retardant clothing.
Other information Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

General measures Do not handle until all safety precautions have been read and understood.
Eliminate every possible source of ignition. During fire, gases hazardous to health may be formed. Nitrogen oxides. Carbon monoxide. Carbon dioxide.

6.1.1. For non-emergency personnel

Protective equipment Use personal protective equipment as required. Wear appropriate protective equipment and clothing during clean-up.
Emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

6.1.2. For emergency responders

Protective equipment Wear recommended personal protective equipment.
Emergency procedures Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the MSDS.

6.2 Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

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6.3 Methods and material for containment and cleaning up

Methods for cleaning up Remove all sources of ignition. Keep away from combustible material. Stop the leak.

Other information Prevent entry into waterways, sewer, basements or confined areas.

6.4 Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

Section 7: Handling and storage

7.1 Safe handling

Precautions for safe handling Keep away from sources of ignition - No smoking. Do not pierce or burn, even after use. Use only outdoors or in a well-ventilated area. Ground/bond container and receiving equipment. Avoid prolonged exposure. Avoid contact with eyes. Observe good industrial hygiene practices. Do not eat, drink or smoke when using this product. Wear appropriate personal protective equipment. Keep only in original container. Avoid release to the environment.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store in a well-ventilated place. Keep container tightly closed. Keep away from ignition sources.

Incompatible materials Combustive materials. Direct sunlight. Heat sources. Sources of ignition.

Storage class (LGK, TRGS 510) LGK 2B – Aerosol dispensers and lighters

7.3 Specific end use(s)

Coating.

Section 8: Exposure controls/personal protection

8.1 Control parameters

8.1.1 National occupational exposure and biological limit values

Pentane (109-66-0)

EU – Indicative Occupational Exposure Limit (IOEL)

Local name	Pentane
IOEL TWA	3000 mg/m ³
IOEL TWA [ppm]	1000 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC

Germany - Occupational Exposure Limits (TRGS 900)

Local name	Pentan
AGW (OEL TWA) [1]	3000 mg/m ³
AGW (OEL TWA) [2]	1000 ppm
AGW (OEL C)	6000 mg/m ³
AGW (OEL C) [ppm]	2000 ppm
Remark	DFG; EU; Y
Regulatory reference	TRGS 900

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Butane (106-97-8)

Germany - Occupational Exposure Limits (TRGS 900)

Local name	Butan
AGW (OEL TWA) [1]	2400 mg/m ³
AGW (OEL TWA) [2]	1000 ppm
AGW (OEL C)	9600 mg/m ³
AGW (OEL C) [ppm]	4000 ppm
Remark	DFG
Regulatory reference	TRGS 900

Propane (74-98-6)

Germany - Occupational Exposure Limits (TRGS 900)

Local name	Propan
AGW (OEL TWA) [1]	1800 mg/m ³
AGW (OEL TWA) [2]	1000 ppm
AGW (OEL C)	4000 mg/m ³
AGW (OEL C) [ppm]	7200 ppm
Überschreitungsfaktor d. Spitzenbegrenzung	4(II)
Remark	DFG
Regulatory reference	TRGS 900

Germany - Occupational Exposure Limits (Generic OEL data)

DFG-MAK Liste 1800 mg/m³ (8-Stunden); 7200 mg/m³ (15-Minuten)
(empfohlene Arbeitsplatzgrenzwerte)
Propan (CAS 74-98-6)

Ethanol (64-17-5)

Germany - Occupational Exposure Limits (TRGS 900)

Local name	Ethanol
AGW (OEL TWA) [1]	380 mg/m ³
AGW (OEL TWA) [2]	200 ppm
AGW (OEL C)	1920 mg/m ³
AGW (OEL C) [ppm]	1000 ppm
Peak exposure limitation factor	2(II)
Remark	DFG; Y
Regulatory reference	TRGS 900

Titanium dioxide (13463-67-7)

Germany - Occupational Exposure Limits (TRGS 900)

AGW (OEL TWA) [1]	10 mg/m ³ inhalable fraction
	1.25 mg/m ³ respirable fraction

8.1.2 Recommended monitoring procedures

No additional information available.

8.1.3 Air contaminants formed

No additional information available.

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8.1.4 DNEL and PNEC

Pentane (109-66-0)

DNEL/DMEL (Workers)

Long-term- systemic effects, dermal	432 mg/kg bodyweight/day
Long-term – systemic effects, inhalation	3000 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	214 mg/kg bodyweight/day
Long-term – systemic effects, inhalation	643 mg/m ³
Long-term - systemic effects, dermal	214 mg/kg bodyweight/day

PNEC (Water)

PNEC aqua (freshwater)	0.23 mg/l
PNEC aqua (marine water)	0.23 mg/l
PNEC aqua (intermittent, freshwater)	0.88 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	1.2 mg/kg dwt
PNEC sediment (marine water)	1.2 mg/kg dwt

PNEC (Soil)

PNEC Soil	0.55 mg/kg dwt
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PNEC (STP)

PNEC sewage treatment plant	3.60 mg/l
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Titanium dioxide (13463-67-7)

DNEL/DMEL (Workers)

Long-term- systemic effects, inhalation	10 mg/m ³
Long-term – local effects, inhalation	10 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	700 mg/kg bodyweight/day
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PNEC (Water)

PNEC aqua (freshwater)	0.127 mg/l
PNEC aqua (marine water)	1 mg/l
PNEC aqua (intermittent, freshwater)	0.61 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	1000 mg/kg dwt
PNEC sediment (marine water)	100 mg/kg dwt

PNEC (Soil)

PNEC Soil	100 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	1667 mg/kg food
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PNEC (STP)

PNEC sewage treatment plant	100 mg/l
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Silicon dioxide (7631-86-9)

DNEL/DMEL (Workers)

Long-term- systemic effects, inhalation	4 mg/m ³
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Ethanol (64-17-5)

DNEL/DMEL (Workers)

Long-term- systemic effects, dermal	343 mg/kg bodyweight/day
Long-term – systemic effects, inhalation	950 mg/m ³
Long-term – local effects, inhalation	1900 mg/m ³

DNEL/DMEL (General population)

Long-term - systemic effects, oral	87 mg/kg bodyweight/day
Long-term – systemic effects, inhalation	114 mg/m ³
Long-term - systemic effects, dermal	206 mg/kg bodyweight/day
Long-term – local effects, inhalation	950 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	0.96 mg/l
PNEC aqua (marine water)	0.79 mg/l
PNEC aqua (intermittent, freshwater)	2.75 mg/l

PNEC (Sediment)

PNEC sediment (freshwater)	3.6 mg/kg dwt
PNEC sediment (marine water)	2.9 mg/kg dwt

PNEC (Soil)

PNEC Soil	0.63 mg/kg dwt
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PNEC (Oral)

PNEC oral (secondary poisoning)	380 mg/kg food
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PNEC (STP)

PNEC sewage treatment plant	580 mg/l
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8.1.5 Control banding

No additional information available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

8.2.2 Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection

Wear tight-fitting goggles or face shield.

8.2.2.2. Skin and body protection

Wear suitable protective clothing.

Hand protection

Wear appropriate protective gloves.

Other skin protection

Materials for protective clothing

Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

8.2.2.3. Respiratory protection

Wear respiratory protection.

8.2.2.4. Thermal hazard protection

Wear appropriate thermal protective clothing, when necessary.

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8.2.3. Environmental exposure controls

Inform appropriate managerial or supervisory personnel of all environmental releases.

Other information

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Gas
Appearance	Aerosol
Colour	white
Odour	Characteristic
Odour threshold	No data available.
Melting point	-188 – -138 °C (1013 hPa)
Freezing point	Not applicable.
Boiling point	-42 °C (1013 hPa)
Flammability	Extremely flammable aerosol.
Oxidising properties	None
Explosive limits	No data available.
Lower explosive limit (LEL)	1.5 vol %
Upper explosive limit (UEL)	10.9 vol %
Flash point	Aerosol/Not applicable.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
pH	Not applicable.
Viscosity, kinematic	Not applicable.
Solubility	No data available.
Log Kow	No data available.
Vapour pressure	2700 hPa (20°C)
Vapour pressure at 50 °C	No data available.
Density	0.54 g/cm ³ (20 °C)
Relative density	Not applicable.
Relative vapour density at 20°C	No data available.
Particle size	Not applicable.
Particle size distribution	Not applicable.
Particle shape	Not applicable.
Particle aspect ratio	Not applicable.
Particle aggregation state	Not applicable.
Particle agglomeration state	Not applicable.
Particle specific surface area	Not applicable.
Particle dustiness	Not applicable.

9.2 Other information

9.2.1. Information with regard to physical hazard classes

% of flammable ingredients Not applicable.

9.2.2. Other safety characteristics

VOC (EU) Not applicable.

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Section 10: Stability and reactivity

10.1 Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2 Chemical stability

Stable under normal conditions of use.

10.3 Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4 Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11: Toxicological information

11.1 Information on 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 (inhalation)	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
STOT-single exposure	Based on available data, the classification criteria are not met.

Pentan (109-66-0)	
STOT- single exposure	May cause drowsiness or dizziness.
STOT- repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Arti-Spray BK 285, white (Occlusion spray)	
Vaporizer	Aerosol

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties Not applicable.

11.2.2. Other information

Potential adverse human effects and symptoms Occupational exposure to the substance or mixture may cause adverse effects.
Other information Not applicable.

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Section 12: Ecological information

12.1 Toxicity

Ecology – general	Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	Not classified
Hazardous to the aquatic environment, long-term (chronic)	Harmful to aquatic life with long lasting effects.

12.2 Persistence and degradability

Pentane (109-66-0)

Persistence and degradability	Readily biodegradable. (OECD 301F method).
Biodegradation	87 %

Ethanol (64-17-5)

Persistence and degradability	(OECD 301D method). 80 % - 85 % biodegradation.
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Butane (106-97-8)

Persistence and degradability	Readily biodegradable.
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Propane (74-98-6)

Persistence and degradability	Readily biodegradable.
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12.3 Bioaccumulative potential

Pentane (109-66-0)

Bioconcentration factor (BCF REACH)	171
Log Pow	3.39
Log Kow	3.45 @ 25 °C

Ethanol (64-17-5)

Log Kow	-0.35 @ 20 °C
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Butane (106-97-8)

Log Pow	1.09 – 2.8 @ 20 °C, pH 7
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Propane (74-98-6)

Log Pow	1.09 – 2.8 @ 20 °C, pH 7
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12.4 Mobility in Soil

No additional information available.

12.5 Results of PBT and vPvB assessment

Occlusion spray

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

12.6 Endocrine disrupting properties

No additional information available.

12.7 Other adverse effects

Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.
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Section 13: Disposal considerations

13.1 Waste treatment methods

Regional legislation (waste)	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Waste treatment methods	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with licensed collector's sorting instructions.
Product/Packaging disposal recommendations	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.
Additional information	Dispose in accordance with all applicable regulations.
European List of Waste (LoW) code	16 05 04 - gases in pressure containers (including halons) containing dangerous substances 15 01 10 - packaging containing residues of or contaminated by dangerous substances

Section 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

14.1. UN number or ID number

UN-No. (ADR)	UN 1950
UN-No. (IMDG)	UN 1950
UN-No. (IATA)	UN 1950
UN-No. (ADN)	UN 1950
UN-No. (RID)	UN 1950

14.2. UN proper shipping name

Proper Shipping Name (ADR)	AEROSOLS
Proper Shipping Name (IMDG)	AEROSOLS
Proper Shipping Name (IATA)	Aerosols, flammable
Proper Shipping Name (ADN)	AEROSOLS
Proper Shipping Name (RID)	AEROSOLS

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR)	2.1
Danger labels (ADR)	2.1

IMDG

Transport hazard class(es) (IMDG)	2.1
Danger labels (IMDG)	2.1

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IATA

Transport hazard class(es) (IATA) 2.1
Danger labels (IATA) 2.1

ADN

Transport hazard class(es) (ADN) 2.1
Danger labels (ADN) 2.1

RID

Transport hazard class(es) (RID) 2.1
Danger labels (RID) 2.1

14.4. Packing group

Packing group (ADR) Not applicable.
Packing group (IMDG) Not applicable.
Packing group (IATA) Not applicable.
Packing group (ADN) Not applicable.
Packing group (RID) Not applicable.

14.5. Environmental hazards

Dangerous for the environment No
Marine pollutant No
Other information No supplementary information available.

14.6. Special precautions for user

Overland transport

Classification code (ADR) 5F
Special provisions (ADR) 190, 327, 344, 625
Limited quantities (ADR) 1I
Packing instructions (ADR) P207, LP02
Tunnel restriction code (ADR) D

Transport by sea

Special provisions (IMDG) 63, 190, 277, 327, 344, 959
Limited quantities (IMDG) SP277
Packing instructions (IMDG) P207, LP200
EmS-No. (Fire) F-D
EmS-No. (Spillage) S-U
Stowage category (IMDG) None

Air transport

PCA Expected quantities (IATA) E0
PCA Limited quantities (IATA) Y203
PCA limited quantity max net quantity (IATA) 30kgG
PCA packing instructions (IATA) 203
PCA max net quantity (IATA) 75kg
CAO packing instructions (IATA) 203

Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878



Trade name: Bausch Arti-Spray® (white)
REF: BK 285
Product group: Occlusion sprays
Version: 005 / EN

Revision date: 2024-05-29

CAO max net quantity (IATA)	150kg
Special provisions (IATA)	A145, A167, A802
ERG code (IATA)	10L

Inland waterway transport

Classification code (ADN)	5F
Special provisions (ADN)	190, 327, 344, 625
Limited quantities (ADN)	1L

Rail transport

Classification code (ADN)	5F
Special provisions (RID)	190, 327, 344, 625
Limited quantities (RID)	1L
Packing instructions (RID)	P207, LP02
Hazard information number (RID)	23

14.7. Maritime transport in bulk according to IMO instruments

Not applicable.

Section 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1 EU-Regulations

EU restriction list (REACH Annex XVII)

Reference code	Applicable on
3(a)	Pentane; Ethanol
3(b)	Pentane; Ethanol
3(c)	Pentane
40.	Pentane; Ethanol; Butane; Propane

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

VOC content Not applicable.

Other information, restriction and prohibition regulations Directive 94/33/EC on the protection of young people at work, as amended is applicable. Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work, as amended is applicable. Directive 92/85/EEC on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding as amended.

Directive 2012/18/EU (SEVESO III)

Seveso Additional information	P3a
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15.1.2 National regulations

Germany

Employment restrictions

Observe restrictions according Act on the Protection of Young People in Employment (JArbSchG).

Observe restrictions according Act on the Protection of Working Mothers (MuSchG).

Observe restrictions according Prohibition of Chemicals Ordinance (ChemVerbotsV).

Water hazard class (WGK)

WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).

Hazardous Incident Ordinance
(12. BImSchV)

Listed in the 12. BImSchV (Annex I) under: 1.2.3.1

- Quantity threshold for operational area under § 1 para. 1
- Sentence 1 :150000 kg
- Sentence 2 :500000 kg

15.2 Chemical safety assessment

No additional information available.

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Section 16: Other information

Indication of changes

Section 1 – Section 16.

Full text of H- and EUH-statements

Aerosol 1	Aerosol, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Asp. Tox. 1	Aspiration hazard, Category 1
EUH211	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.
Flam. Gas 1A	Flammable gases, Category 1A
Flam. Liq. 1	Flammable liquids, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H224	Extremely flammable liquid and vapour.
H229	Pressurized container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
Press. Gas (Comp.)	Gases under pressure: Compressed gas
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]

Aerosol 1	H222; H229	On the basis of test data
Aquatic Chronic 3	H412	Calculation method

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Issued by:

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