

SAFETY DATA SHEET**Blue Spray**

The safety data sheet is in accordance with Commission Regulation (EU) 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

Date issued	12.04.2019
Revision date	25.07.2023

1.1. Product identifier

Product name	Blue Spray
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1.2. Relevant identified uses of the substance or mixture and uses advised against

Function	Description: Wound spray
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1.3. Details of the supplier of the safety data sheet

Company name	Aeropak A/S
Postal address	Aldumvej 1
Postcode	8722
City	Hedensted
Country	Denmark
Telephone number	+45 7589 2355
Email	info@aeropak.dk
Website	http://www.aeropak.dk

1.4. Emergency telephone number

Emergency telephone	Telephone number: +45 7589 2355 (8-16 Mon-Thu, 8-13 Fri) Description: Aeropak Telephone number: 111 Description: NHS Description: Use your national or local emergency number - See section 4 "First aid measures".
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SECTION 2: Hazards identification**2.1. Classification of the substance or mixture**

Classification according to Regulation (EC) No 1272/2008 [CLP / GHS]	Aerosol 1; H222
	Aerosol 1; H229
	Eye Irrit. 2; H319

2.2. Label elements

Hazard pictograms (CLP)



Signal word	Danger
Hazard statements	H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated. H319 Causes serious eye irritation.
Precautionary statements	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. P403 Store in a well-ventilated place. P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C / 122°F.

2.3. Other hazards

PBT / vPvB	The mixture does not meet the criteria for PBT or vPvB.
Other hazards	The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents	Notes
Ethanol	CAS No.: 64-17-5 EC No.: 200-578-6 Index No.: 603-002-00-5 REACH Reg. No.: 01-2119457610-43-XXXX	Flam. Liq. 2; H225 Eye Irrit. 2; H319	60 -100 % wt/wt	
Propan-2-ol	CAS No.: 67-63-0 EC No.: 200-661-7 Index No.: 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	0 - 20 % wt/wt	
Butane	CAS No.: 106-97-8 EC No.: 203-448-7 Index No.: 601-004-00-0	Flam gas 1; H220 Press. Gas	10 - 30 % wt/wt	
Propane	CAS No.: 74-98-6 EC No.: 200-827-9 Index No.: 601-003-00-5	Flam. Gas 1; H220 Press. Gas;	1 - 15 % wt/wt	
Hexan-1-ol, ethoxylated	CAS No.: 31726-34-8 EC No.: 500-077-5	Acute tox. 4; H302 Skin Irrit. 2; H315	1 - 5 % wt/wt	

Eye Irrit. 2; H319

Substance comments	The substance ethanol, propan-2-ol is an organic solvent. See full text of H-phrases in section 16.
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SECTION 4: First aid measures

4.1. Description of first aid measures

General	If medical advice is needed, have product container or label at hand. Burns: Flush with water until pain ceases. Remove clothing that is not stuck to the skin – seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.
Inhalation	Seek fresh air. Keep victim under observation. Get medical advice/attention if you feel unwell.
Skin contact	Remove contaminated clothing. Wash skin with soap and water. Seek medical advice in case of persistent discomfort.
Eye contact	Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.
Ingestion	Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Get medical advice/attention if you feel unwell.

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

General symptoms and effects	Irritation effects: This product contains substances which cause irritation to skin and eyes, or when inhaled. Contact with locally irritative substances can cause the area of contact to be more prone to absorb damaging substances such as allergens.
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4.3. Indication of any immediate medical attention and special treatment needed

Other information	No special immediate treatment required.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water or water mist to cool non-ignited stock. Extinguish with powder, foam, carbon dioxide or water mist.
Improper extinguishing media	Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Extremely flammable aerosol. CAUTION! Aerosol containers may explode. Avoid inhalation of vapour and fumes – seek fresh air. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
Hazardous combustion products	Product decomposes in fire conditions and toxic gases such as COx may be released.

5.3. Advice for firefighters

Other information	If there is a risk of exposure to vapour and flue gases, a self-contained breathing
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apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment. Avoid breathing and contact with skin and eyes.

Personal protection measures

Use personal protective equipment as required.

6.2. Environmental precautions

Environmental precautionary measures

Avoid unnecessary release to the environment.

6.3. Methods and material for containment and cleaning up

Containment

Wipe up minor spills with a cloth.

6.4. Reference to other sections

Other instructions

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

See section 8 for information about precautions for use and personal protective equipment. Use the product under well-ventilated conditions, preferably outdoors. Smoking and naked flames prohibited.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Pressurized container: Protect from sunlight and do not expose to temperatures exceeding 50°C. Store frost-free. Keep out of reach of children.

Conditions for safe storage

Storage temperature

Value: 10 - 50 °C

7.3. Specific end use(s)

Specific use(s)

See application section 1.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Substance	Identification	Exposure limits	TWA Year
Ethanol	CAS No.: 64-17-5	Limit value (8 h) : 1000 ppm Limit value (8 h) : 1920 mg/ m ³	

Propan-2-ol	CAS No.: 67-63-0	Limit value (8 h) : 400 ppm Limit value (8 h) : 999 mg/m ³ Limit value (short term) Value: 500 ppm Limit value (short term) Value: 1250 mg/m ³
Butane	CAS No.: 106-97-8	Limit value (8 h) : 600 ppm Limit value (8 h) : 1450 mg/m ³ Limit value (short term) Value: 750 ppm Limit value (short term) Value: 1810 mg/m ³
Propane	CAS No.: 74-98-6	

DNEL / PNEC

Substance	Ethanol
DNEL	Group: Consumer Route of exposure: Long-term dermal (systemic) Value: 206 mg/kg Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 950 mg/m³ Group: Professional Route of exposure: Long-term dermal (systemic) Value: 343 mg/kg Group: Consumer Route of exposure: Long-term inhalation (systemic) Value: 114 mg/m³ Group: Consumer Route of exposure: Acute inhalation (local) Value: 950 mg/m³ Group: Professional Route of exposure: Acute inhalation (local) Value: 1900 mg/m³ Group: Consumer Route of exposure: Long-term oral (systemic) Value: 87 mg/kg Group: Professional Route of exposure: Long-term inhalation (systemic) Value: 600 mg/m³
PNEC	Route of exposure: Soil Value: 22,5 mg/kg Route of exposure: Saltwater Value: 55,8 mg/l

	Route of exposure: Saltwater sediments Value: 284,7 mg/kg
	Route of exposure: Freshwater Value: 55,8 mg/l
	Route of exposure: Sewage treatment plant STP Value: 709 mg/l
	Route of exposure: Freshwater sediments Value: 284,74 mg/kg
Substance	Propan-2-ol
DNEL	Group: Professional Route of exposure: Lang sigt (gentages) - Dermal - Systemisk virkning Value: 888 mg/kg bw/day
	Group: Professional Route of exposure: Lang sigt (gentages) - Indånding - Systemisk virkning Value: 500 mg/m ³
	Group: Consumer Route of exposure: Lang sigt (gentages) - Oral - Systemisk virkning Value: 26 mg/kg bw/day
	Group: Consumer Route of exposure: Lang sigt (gentages) - Dermal - Systemisk virkning Value: 319 mg/kg bw/day
	Group: Consumer Route of exposure: Lang sigt (gentages) - Indånding - Systemisk virkning Value: 89 mg/m ³
PNEC	Route of exposure: Soil Exposure frequency: Kort sigt (akut) Value: 28 mg/kg soil dw
	Route of exposure: Water Exposure frequency: Langsigtet, (gentages) Value: 140,9 mg/L Reference: Marine water Intermittent releases
	Route of exposure: Water Exposure frequency: Kort sigt (akut) Value: 140,9 mg/L Reference: Intermittent releases Marine water
	Route of exposure: Water Exposure frequency: Kort sigt (akut) Value: 140,9 mg/L Reference: Fresh water

8.2. Exposure controls

Safety signs



Precautionary measures to prevent exposure

Instruction on measures to prevent exposure

Wash hands before breaks, before using restroom facilities, and at the end of work. Do not eat, drink or smoke when using this product.

Eye / face protection

Eye protection

Wear safety goggles if there is a risk of eye splash.

Hand protection

Hand protection

Wear protective gloves made of nitrile rubber.

Skin protection

Suitable protective clothing

Not required.

Respiratory protection

Respiratory protection

In case of insufficient ventilation, wear respiratory protective equipment with filter A.

Thermal hazards

Thermal hazards

Aerosol cans can explode.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Aerosol
Colour	Blue
Odour	Alcohol
Solubility description	Immiscible with water

9.2. Other information

9.2.2. Other safety characteristics

Comments

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

Heating may cause a fire or explosion.

10.2. Chemical stability

Stability

The product is stable when used in accordance with the supplier's directions.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions

No risk of hazardous reactions.

10.4. Conditions to avoid

Conditions to avoid

Avoid heating and contact with ignition sources.

10.5. Incompatible materials

Materials to avoid

None known.

10.6. Hazardous decomposition products

Hazardous decomposition products

No special precautions regarding contact with other materials at the recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Substance

Ethanol

Acute toxicity

Effect tested: LD50
Route of exposure: Oral
Value: 10470 mg/kg bw
Animal test species: Rat

Effect tested: LD50
Route of exposure: Dermal
Value: 17100 mg/kg bw
Animal test species: Rabbit

Effect tested: LC50
Route of exposure: Inhalation.
Duration: 4 hour(s)
Value: 124,7 mg/l
Animal test species: Rat

Substance

Propan-2-ol

Acute toxicity

Type of toxicity: Acute
Effect tested: LC50
Route of exposure: Inhalation.
Value: > 10000 ppm
Animal test species: Rat

Type of toxicity: Acute
Effect tested: LD50
Route of exposure: Dermal
Value: 16,4 ml/kg bw
Animal test species: Rabbit

	Type of toxicity: Acute Effect tested: LD50 Route of exposure: Oral Value: 5,84 mg/kg bw Animal test species: Rat
Substance	Butane
Acute toxicity	Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 2 h Value: 1237 mg/L air Animal test species: Mouse
Substance	Propane
Acute toxicity	Type of toxicity: Acute Effect tested: LC50 Route of exposure: Inhalation. Duration: 2 h Value: 1237 mg/L air Animal test species: Mouse

Other information regarding health hazards

Assessment of acute toxicity, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of skin corrosion / irritation, classification	May cause slight irritation.
Assessment of eye damage or irritation, classification	Irritating to eyes. Causes a burning sensation and tearing.
Assessment of respiratory sensitisation, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of skin sensitisation, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of germ cell mutagenicity, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of carcinogenicity, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of reproductive toxicity, classification	Based on existing data, the classification criteria are deemed not to have been met.
Assessment of specific target organ toxicity - single exposure, classification	The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.
Assessment of specific target organ toxicity - repeated exposure, classification	Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.
Assessment of aspiration hazard, classification	Based on existing data, the classification criteria are deemed not to have been met.

11.2 Other information

Endocrine disruption

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SECTION 12: Ecological information

12.1. Toxicity

Substance	Ethanol
Aquatic toxicity, fish	Value: 15300 mg/l Effect dose concentration: LC50 Test duration: 96 hour(s) Species: Pimephales promelas
Substance	Propan-2-ol
Aquatic toxicity, fish	Value: 10000 mg/L Test duration: 96 h Method: LC50
Substance	Butane
Aquatic toxicity, fish	Value: 24,11 - 147,54 mg/L Test duration: 96 h Method: LC50
Substance	Propane
Aquatic toxicity, fish	Value: 27,98 mg/L Test duration: 96 h Method: LC50
Substance	Ethanol
Aquatic toxicity, algae	Value: 275 mg/l Effect dose concentration: EC50 Test duration: 96 hour(s) Species: Chlorella vulgaris
Substance	Butane
Aquatic toxicity, algae	Value: 7,71 - 19,37 mg/L Test duration: 96 h Method: EC50
Substance	Propane
Aquatic toxicity, algae	Value: 7,71 mg/L Test duration: 48 h Method: EC50
Substance	Ethanol
Aquatic toxicity, crustacean	Value: 12340 mg/l Effect dose concentration: EC50 Test duration: 48 hour(s) Species: Daphnia magna
Substance	Propan-2-ol
Aquatic toxicity, crustacean	Value: > 10000 mg/L

	Test duration: 24 h Method: LC50
Substance	Butane
Aquatic toxicity, crustacean	Value: 14,22 - 69,43 mg/L Test duration: 48 h Method: LC50
Substance	Propane
Aquatic toxicity, crustacean	Value: 14,22 mg/L Test duration: LC50 Method: Daphnia

12.2. Persistence and degradability

Substance	Ethanol
Biodegradability	Value: 97 % Method: CO2 evolution Test period: 28 day(s)
Substance	Butane
Biodegradability	Value: 100 % Method: Biodegradation test, (predates, OECD test) Test period: 385,5 h
Substance	Propane
Biodegradability	Value: 100 % Method: Biodegradation test, predates, OECD test Test period: after 358,5 h
Persistence and degradability, comments	Readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	The product is not bioaccumulable.
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12.4. Mobility in soil

Mobility	Test data are not available.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	The mixture does not meet the criteria for PBT or vPvB.
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12.6. Endocrine disrupting properties

Endocrine disrupting properties	-
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12.7. Other adverse effects

Other adverse effects, comments	None.
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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Specify the appropriate methods of disposal	Do not dispose of aerosol sprays in refuse collection, even when empty. The sprays must be sent to the municipal chemical waste collection facility with the specifications set out below.
EWC waste code	EWC waste code: 160504 gases in pressure containers (including halons) containing dangerous substances Classified as hazardous waste: Yes
National waste group	H/Z

SECTION 14: Transport information

Dangerous goods	Yes
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14.1. UN number

ADR/RID/ADN	1950
IMDG	1950
ICAO/IATA	1950

14.2. UN proper shipping name

ADR/RID/ADN	AEROSOLS
IMDG	AEROSOLS
ICAO/IATA	AEROSOLS, FLAMMABLE

14.3. Transport hazard class(es)

ADR/RID/ADN	2.1
IMDG	2.1
ICAO/IATA	2.1

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Maritime transport in bulk according to IMO instruments

IMDG Other information

EmS	F-D, S-U
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SECTION 15: Regulatory information

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

References (laws/regulations)	EH40/2005 Workplace exposure limits (Fourth Edition 2020).
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EC regulation 1907/2006 (REACH), with amendments.
EC Regulation 1272/2008 (CLP), with amendments.
EU regulation no. 276/2010
Directive 2000/532/EC
ECHA - The European Chemicals Agency

Declaration No. 4049267

15.2. Chemical safety assessment

Chemical safety assessment performed No

SECTION 16: Other information

List of relevant H-phrases (Section 2 and 3)

H220 Extremely flammable gas.
H222 Extremely flammable aerosol.
H225 Highly flammable liquid and vapour.
H229 Pressurised container: May burst if heated.
H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Version 8

Prepared by KN - v4