

Safety Data Sheet

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



AESUB Blue / 35ml / 400ml

Version number: GHS 3.0
Replaces version of: 2019-09-20 (GHS 2)

revision: 2019-09-23

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

1.1 Product identifier

Trade name **AESUB Blue / 35ml / 400ml**
Registration number (REACH) not relevant (mixture)

Other means of identification

article number AESBM003 (35 ml) / AESB002 (400 ml) / AESB004

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

Relevant identified uses coating
Uses advised against do not use for products which come into contact with foodstuffs
do not use for private purposes (household)

1.3 Details of the supplier of the safety data sheet

Scanningspray Vertiebs UG (haftungsbeschränkt)
Gersdorffstr. 20a
44225 Dortmund
Germany
e-mail: info@scanningspray.de
Website: www.scanningspray.de

Competent person responsible for the safety data sheet Max Ruhfus

e-mail (competent person) ruhfus@scanningspray.de

1.4 Emergency telephone number

Emergency information service 24 Stunden Notrufnummer: Vergiftungs-Informationen-Zentrale Freiburg +49 (0) 761 / 192 40
This number is only available during the following office hours: Mon-Fri 00:00 - 00:00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

| Section | Hazard class | Category | Hazard class and category | Hazard statement |
|---------|---|----------|---------------------------|------------------|
| 2.3 | aerosols | Cat. 1 | (Aerosol 1) | H222, H229 |
| 4.1C | hazardous to the aquatic environment - chronic hazard | Cat. 3 | (Aquatic Chronic 3) | H412 |

Remarks

For full text of H-phrases: see SECTION 16.

Supplemental hazard information

| Code | Supplemental hazard information |
|--------|--|
| EUH066 | repeated exposure may cause skin dryness or cracking |

The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

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2.2 Label elements

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

Signal word

Danger

Pictograms

GHS02



Hazard statements

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

Precautionary statements

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.

Precautionary statements - storage

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

Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant.

Additional labelling requirements

EUH066 Repeated exposure may cause skin dryness or cracking.

2.3 Other hazards

There is no additional information.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

| Name of substance | Identifier | wt% | Classification acc. to 1272/2008/EC | Pictograms |
|-------------------|---|-----------|---|------------|
| cyclopentane | CAS No 287-92-3 EC No 206-016-6 REACH Reg. No 01-2119463053-47 | 25 - < 50 | Flam. Liq. 2 / H225 Aquatic Chronic 3 / H412 | |

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| Name of substance | Identifier | wt% | Classification acc. to 1272/2008/EC | Pictograms |
|---|--|-----------|---|---|
| propane | CAS No 74-98-6 EC No 200-827-9 REACH Reg. No 01-2119486944-21- xxxx | 25 - < 50 | Flam. Gas 1 / H220 Press. Gas L / H280 |  |
| ethanol | CAS No 64-17-5 EC No 200-578-6 REACH Reg. No 01-2119457610-43- xxxx | 10 - < 25 | Flam. Liq. 2 / H225 |  |
| Tricyclo[3.3.1.1.3,7]decane | CAS No 281-23-2 EC No 206-001-4 REACH Reg. No 01-2120041464-63- xxxx | 5 - < 10 | Aquatic Acute 1 / H400 |  |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | EC No 926-605-8 REACH Reg. No 01-2119486291-36- xxxx | 1 - < 5 | Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |  |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | EC No 921-024-6 REACH Reg. No 01-2119475514-35- xxxx | 1 - < 5 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |  |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | EC No 931-254-9 REACH Reg. No 01-2119484651-34- xxxx | 1 - < 5 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |  |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | EC No 927-510-4 REACH Reg. No 01-2119475515-33- xxxx | 1 - < 5 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 |  |

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| Name of substance | Identifier | wt% | Classification acc. to 1272/2008/EC | Pictograms |
|-------------------|--|-----|---|------------|
| n-hexane | CAS No 110-54-3 EC No 203-777-6 REACH Reg. No 01-2119480412-44- xxxx | < 1 | Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 Repr. 2 / H361 STOT SE 3 / H336 STOT RE 2 / H373 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411 | |

For full text of abbreviations: see SECTION 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. Provide fresh air.

Following skin contact

Wash with plenty of soap and water.

Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms and effects are not known to date.

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

water spray, BC-powder

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

carbon monoxide (CO), carbon dioxide (CO₂)

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5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Remove persons to safety.

For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Recommendations

• Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feed-stuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

• Flammability hazards

Do not spray on an open flame or other ignition source. Protect from sunlight.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice

• Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

7.3 Specific end use(s)

See section 16 for a general overview.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

| Country | Name of agent | CAS No | Identifier | TWA [ppm] | TWA [mg/m ³] | STEL [ppm] | STEL [mg/m ³] | Ceiling-C [ppm] | Ceiling-C [mg/m ³] | Notation | Source |
|---------|----------------------------------|----------|------------|-----------|--------------------------|------------|---------------------------|-----------------|--------------------------------|----------|------------|
| EU | n-hexane | 110-54-3 | IOEL V | 20 | 72 | | | | | | 2006/15/EC |
| GB | hydrocarbon mixture (RCP method) | | WEL | | 1,500 | | 3,000 | | | | EH40/2005 |
| GB | n-hexane | 110-54-3 | WEL | 20 | 72 | | | | | | EH40/2005 |
| GB | cycloalkanes (C5-C6) | 287-92-3 | WEL | | 1,800 | | | | | | EH40/2005 |
| GB | ethanol | 64-17-5 | WEL | 1,000 | 1,920 | | | | | | EH40/2005 |

Notation

Ceiling-C
STEL

Ceiling value is a limit value above which exposure should not occur
Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs/DMELs/PNECs and other threshold levels

• relevant DNELs of components of the mixture

| Name of substance | CAS No | Endpoint | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|---------|----------|-------------------------|------------------------------------|-------------------|----------------------------|
| ethanol | 64-17-5 | DNEL | 1,900 mg/m ³ | human, inhalatory | worker (industry) | acute - local effects |
| ethanol | 64-17-5 | DNEL | 343 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| ethanol | 64-17-5 | DNEL | 950 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | | DNEL | 13,964 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | | DNEL | 5,306 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | DNEL | 773 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |

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| Name of substance | CAS No | End-point | Threshold level | Protection goal, route of exposure | Used in | Exposure time |
|---|----------|-----------|-------------------------|------------------------------------|-------------------|----------------------------|
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | DNEL | 2,035 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | DNEL | 5,306 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | DNEL | 13,964 mg/kg bw/day | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | DNEL | 300 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | DNEL | 2,085 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |
| n-hexane | 110-54-3 | DNEL | 11 mg/kg | human, dermal | worker (industry) | chronic - systemic effects |
| n-hexane | 110-54-3 | DNEL | 75 mg/m ³ | human, inhalatory | worker (industry) | chronic - systemic effects |

• relevant PNECs of components of the mixture

| Name of substance | CAS No | End-point | Threshold level | Organism | Environmental compartment | Exposure time |
|-------------------|---------|-----------|-----------------|-------------------|------------------------------|------------------------------|
| ethanol | 64-17-5 | PNEC | 580 mg/l | aquatic organisms | sewage treatment plant (STP) | short-term (single instance) |
| ethanol | 64-17-5 | PNEC | 2.75 mg/l | aquatic organisms | water | intermittent release |

8.2 Exposure controls

Appropriate engineering controls

General ventilation.

Individual protection measures (personal protective equipment)

Personal protective equipment shall be used when the risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization.

Eye/face protection

Wear eye/face protection.

Skin protection

• hand protection

Wear suitable gloves. Check leak-tightness/impermeability prior to use. 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.

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

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Respiratory protection

[In case of inadequate ventilation] wear respiratory protection.

Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

| | |
|----------------|-------------------------|
| Physical state | aerosol (spray aerosol) |
| Colour | various |
| Odour | characteristic |

Other physical and chemical parameters

| | |
|---|---|
| pH (value) | not determined |
| Melting point/freezing point | not determined |
| Initial boiling point and boiling range | -161.5 °C at 1,013 hPa |
| Flash point | <-29 °C at 101.3 kPa |
| Evaporation rate | not determined |
| Flammability (solid, gas) | Flammable aerosol in accordance with GHS criteria |
| Explosive limits | |
| • lower explosion limit (LEL) | 0.6 vol% |
| • upper explosion limit (UEL) | 15 vol% |
| Vapour pressure | 25 kPa at 20 °C |
| Density | not determined |
| Relative density | Information on this property is not available. |
| Solubility(ies) | not determined |
| Partition coefficient | |
| n-octanol/water (log KOW) | This information is not available. |
| Auto-ignition temperature | 264 °C |
| Viscosity | not relevant (aerosol) |
| Explosive properties | none |
| Oxidising properties | none |

9.2 Other information

| | |
|--------------------|---------|
| Solvent content | 58.29 % |
| Solid content | 9.072 % |
| propellant content | 32.64 % |

SECTION 10: Stability and reactivity

10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

10.2 Chemical stability

See below "Conditions to avoid".

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10.3 Possibility of hazardous reactions

No known hazardous reactions.

10.4 Conditions to avoid

Do not spray on an open flame or other ignition source. - Keep away from heat.

Hints to prevent fire or explosion

Protect from sunlight.

Physical stresses which might result in a hazardous situation and have to be avoided

strong shocks

10.5 Incompatible materials

oxidisers

10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Other information

Repeated exposure may cause skin dryness or cracking.

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SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute)

Aquatic toxicity (acute) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|----------|----------|------------|-----------------------|---------------|
| propane | 74-98-6 | LC50 | 27.98 mg/l | fish | 96 h |
| propane | 74-98-6 | EC50 | 7.71 mg/l | algae | 96 h |
| ethanol | 64-17-5 | LC50 | 14.2 g/l | fish | 96 h |
| ethanol | 64-17-5 | EC50 | 12.9 g/l | fish | 96 h |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | | LL50 | 12 mg/l | fish | 96 h |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | | EL50 | 17.06 mg/l | aquatic invertebrates | 48 h |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | LL50 | 15.8 mg/l | fish | 72 h |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | EL50 | 3 mg/l | aquatic invertebrates | 48 h |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | LL50 | 18.27 mg/l | fish | 96 h |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | EL50 | 31.9 mg/l | aquatic invertebrates | 48 h |
| Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics | | LL50 | >13.4 mg/l | fish | 96 h |
| n-hexane | 110-54-3 | LL50 | 12.51 mg/l | fish | 96 h |
| n-hexane | 110-54-3 | EL50 | 21.85 mg/l | aquatic invertebrates | 48 h |

Aquatic toxicity (chronic)

May cause long-term adverse effects in the aquatic environment.

Aquatic toxicity (chronic) of components of the mixture

| Name of substance | CAS No | Endpoint | Value | Species | Exposure time |
|---|---------|----------|------------|-----------------------|---------------|
| ethanol | 64-17-5 | LC50 | >0.08 mg/l | fish | 42 d |
| ethanol | 64-17-5 | EC50 | 22.6 g/l | algae | 10 d |
| ethanol | 64-17-5 | ErC50 | 675 mg/l | algae | 4 d |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | EL50 | 12 mg/l | aquatic invertebrates | 24 h |

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12.2 Persistence and degradability

Degradability of components of the mixture

| Name of substance | CAS No | Process | Degradation rate | Time |
|---|---------|------------------|------------------|------|
| ethanol | 64-17-5 | oxygen depletion | 74 % | 5 d |
| Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane | | oxygen depletion | 83 % | 10 d |
| Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane | | oxygen depletion | 83 % | 16 d |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | oxygen depletion | 83 % | 10 d |

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture

| Name of substance | CAS No | BCF | Log KOW | BOD5/COD |
|--|----------|-------|------------------------------|----------|
| propane | 74-98-6 | | 1.09 (pH value: 7, 20 °C) | |
| ethanol | 64-17-5 | | -0.35 (pH value: 7.4, 24 °C) | |
| Tricyclo[3.3.1.1.13,7]decane | 281-23-2 | | 4.24 | |
| Hydrocarbons, C6, isoalkanes, <5% n-hexane | | 501.2 | 3.6 (pH value: 7, 20 °C) | |
| n-hexane | 110-54-3 | 501.2 | 4 (pH value: 7, 20 °C) | |

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

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SECTION 14: Transport information

| | | |
|------|--|--|
| 14.1 | UN number | 1950 |
| 14.2 | UN proper shipping name | AEROSOLS |
| 14.3 | Transport hazard class(es) | |
| | Class | 2 (gases) (aerosol) |
| | Subsidiary risk(s) | 2.1 (flammability) |
| 14.4 | Packing group | not assigned to a packing group |
| 14.5 | Environmental hazards | none (non-environmentally hazardous acc. to the dangerous goods regulations) |
| 14.6 | Special precautions for user | |
| | Provisions for dangerous goods (ADR) should be complied within the premises. | |
| 14.7 | Transport in bulk according to Annex II of MARPOL and the IBC Code | |
| | The cargo is not intended to be carried in bulk. | |

Information for each of the UN Model Regulations

• Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

| | |
|----------------------|----------|
| UN number | 1950 |
| Proper shipping name | AEROSOLS |
| Class | 2 |
| Classification code | 5F |
| Danger label(s) | 2.1 |



| | |
|-------------------------------|--------------------|
| Special provisions (SP) | 190, 327, 344, 625 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |
| Transport category (TC) | 2 |
| Tunnel restriction code (TRC) | D |

• International Maritime Dangerous Goods Code (IMDG)

| | |
|----------------------|----------|
| UN number | 1950 |
| Proper shipping name | AEROSOLS |
| Class | 2.1 |
| Danger label(s) | 2.1 |



| | |
|--------------------------|----------------------------------|
| Special provisions (SP) | 63, 190, 277, 327, 344, 381, 959 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 1 L |

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| | |
|--|---------------------|
| EmS | F-D, S-U |
| Stowage category | - |
| • International Civil Aviation Organization (ICAO-IATA/DGR) | |
| UN number | 1950 |
| Proper shipping name | Aerosols, flammable |
| Class | 2.1 |
| Danger label(s) | 2.1 |



| | |
|--------------------------|------------|
| Special provisions (SP) | A145, A167 |
| Excepted quantities (EQ) | E0 |
| Limited quantities (LQ) | 30 kg |

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

- Directive 75/324/EEC relating to aerosol dispensers

Classification of the gas/aerosol Extremely flammable

Labelling Pressurized container: may burst if heated
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Do not pierce or burn, even after use
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

16.1 Indication of changes (revised safety data sheet)

| Section | Former entry (text/value) | Actual entry (text/value) | Safety-relevant |
|---------|---|---|-----------------|
| 1.1 | Other means of identification: article number AESBM003 (35 ml) / AESB002 (400 ml) | Other means of identification: article number AESBM003 (35 ml) / AESB002 (400 ml) / AESB004 | yes |

Abbreviations and acronyms

Safety Data Sheet

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



AESUB Blue / 35ml / 400ml

Version number: GHS 3.0
Replaces version of: 2019-09-20 (GHS 2)

revision: 2019-09-23

| Abbr. | Descriptions of used abbreviations |
|-----------------|---|
| 2006/15/EC | Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC |
| ADN | Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures (European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways) |
| ADR | Accord européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road) |
| Aquatic Acute | Hazardous to the aquatic environment - acute hazard |
| Aquatic Chronic | Hazardous to the aquatic environment - chronic hazard |
| Asp. Tox. | Aspiration hazard |
| BCF | Bioconcentration factor |
| BOD | Biochemical Oxygen Demand |
| CAS | Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances) |
| Ceiling-C | Ceiling value |
| CLP | Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures |
| CMR | Carcinogenic, Mutagenic or toxic for Reproduction |
| COD | Chemical oxygen demand |
| DGR | Dangerous Goods Regulations (see IATA/DGR) |
| DMEL | Derived Minimal Effect Level |
| DNEL | Derived No-Effect Level |
| EC50 | Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval |
| EC No | The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union) |
| EH40/2005 | EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/) |
| EINECS | European Inventory of Existing Commercial Chemical Substances |
| EL50 | Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms |
| ELINCS | European List of Notified Chemical Substances |
| EmS | Emergency Schedule |
| ErC50 | ≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control |
| Flam. Gas | Flammable gas |
| Flam. Liq. | Flammable liquid |
| GHS | "Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations |
| IATA | International Air Transport Association |
| IATA/DGR | Dangerous Goods Regulations (DGR) for the air transport (IATA) |
| ICAO | International Civil Aviation Organization |
| IMDG | International Maritime Dangerous Goods Code |
| IOELV | Indicative occupational exposure limit value |

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| Abbr. | Descriptions of used abbreviations |
|-------------|---|
| LC50 | Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval |
| LL50 | Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality |
| log KOW | n-Octanol/water |
| MARPOL | International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant") |
| NLP | No-Longer Polymer |
| PBT | Persistent, Bioaccumulative and Toxic |
| PNEC | Predicted No-Effect Concentration |
| ppm | Parts per million |
| Press. Gas | Gas under pressure |
| RCP | Reciprocal calculation procedure |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals |
| Repr. | Reproductive toxicity |
| RID | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| Skin Corr. | Corrosive to skin |
| Skin Irrit. | Irritant to skin |
| STEL | Short-term exposure limit |
| STOT RE | Specific target organ toxicity - repeated exposure |
| STOT SE | Specific target organ toxicity - single exposure |
| TWA | Time-weighted average |
| vPvB | Very Persistent and very Bioaccumulative |
| WEL | Workplace exposure limit |

Key literature references and sources for data

- Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- Regulation (EC) No. 1272/2008 (CLP, EU GHS)

Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in chapter 2 and 3)

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| Code | Text |
|------|--|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapour. |
| H229 | Pressurised container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H315 | Causes skin irritation. |
| H336 | May cause drowsiness or dizziness. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Specific end use(s)

Coating

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.