

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

AESUB Blue

Version number: 2.0 Revision: 27.01.2025 Replaces version of: 01.06.2023 (1)

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

1.1 Product identifier

Trade name AESUB Blue

Registration number (REACH) not relevant (mixture)
Unique formula identifier (UFI) 6XR2-T0PV-200C-YJHR

Article number 401656, 401666, 401769, 401803, 402035, 402117, Alternative name(s) 402260, 402463, 402679, 402757, 402788, 402911

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 (house-

hold).

1.3 Details of the supplier of the safety data sheet

Scanningspray Vertriebs GmbH Johann-Strauß-Str. 13 45657 Recklinghausen Germany

e-mail: info@aesub.com Website: www.aesub.com e-mail (competent person)

liese@aesub.com (Max Liese)

1.4 Emergency telephone number (CCN 994267 / WISAG FMO Cargo Service GmbH &

Co. KG)

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 cat- egory	Hazard state- ment
2.3	aerosols	1	Aerosol 1	H222,H229
3.8D	specific target organ toxicity - single exposure (narcotic effects, drowsiness)	3	STOT SE 3	H336
4.1C	hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16.

The most important adverse physicochemical, human health and environmental effects Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

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

- Signal word danger

Belgium: en Page: 1/17



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

AESUB Blue

Version number: 2.0
Replaces version of: 01.06.2023 (1)
Revision: 27.01.2025

- Pictograms

GHS02, GHS07



- Hazard statements

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.
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.

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P312 Call a POISON CENTRE/doctor if you feel unwell.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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

P501 Dispose of contents/container to industrial combustion plant.

Additional labelling according to Directive 75/324/EEC relating to aerosol dispensers

Extremely flammable. 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.

- Hazardous ingredients for labelling

cyclopentane, Hydrocarbons, C6-C7, iso-alkanes, cyclic, < 5% n-hexane, Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic, < 5% n-hexane, Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic

2.3 Other hazards

There is no additional information.

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not relevant (mixture)

3.2 Mixtures

Description of the mixture

Hazardous ingredients acc. to GHS							
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms			
cyclopentane	CAS No 287-92-3 EC No 206-016-6	25 - < 50	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 3 / H412	(3) (1) (2)			

Belgium: en Page: 2 / 17



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

AESUB Blue

Version number: 2.0 Revision: 27.01.2025 Replaces version of: 01.06.2023 (1)

Hazardous ingredient	ts acc. to GHS			
Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
	Index No 601-030-00-2			
	REACH Reg. No 01-2119463053-47			
propane	CAS No 74-98-6	25-<50	Flam. Gas 1A / H220 Press. Gas L / H280	
	EC No 200-827-9			•
	Index No 601-003-00-5			
	REACH Reg. No 01-2119486944-21-xxxx			
bioethanol	CAS No 64-17-5	10-<25	Flam. Liq. 2 / H225 Eye Irrit. 2 / H319	<u>(4)</u>
	EC No 200-578-6			•
	Index No 603-002-00-5			
	REACH Reg. No 01-2119457610-43-xxxx			
Tricyclo[3.3.1.13,7]decane	CAS No 281-23-2	5-<10	Aquatic Acute 1 / H400 Aquatic Chronic 4 / H413	4 2
	EC No 206-001-4			·
	REACH Reg. No 01-2120041464-63-xxxx			
Hydrocarbons, C6-C7, iso-al- kanes, cyclic, < 5% n-hexane	EC No 926-605-8	1-<5	Flam. Liq. 2 / H225 STOT SE 3 / H336 Asp. Tox. 1 / H304	
	REACH Reg. No 01-2119486291-36-xxxx		Aquatic Chronic 2 / H411 EUH066	***
Hydrocarbons, C6-C7, n-al- kanes, iso-alkanes, cyclic, <	EC No 921-024-6	1-<5	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315	
5% n-hexane	REACH Reg. No 01-2119475514-35-xxxx		STOT SE 3 / H336 Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	
Hydrocarbons, C6, iso-al- kanes, <5% n-hexane	EC No 931-254-9	1-<5	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336	
	REACH Reg. No 01-2119484651-34-xxxx		Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	***
Hydrocarbons, C7, n-alkanes, iso-alkanes, cyclic	EC No 927-510-4	1-<5	Flam. Liq. 2 / H225 Skin Irrit. 2 / H315 STOT SE 3 / H336	
	REACH Reg. No 01-2119475515-33-xxxx		Asp. Tox. 1 / H304 Aquatic Chronic 2 / H411	***

Belgium: en Page: 3 / 17



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

AESUB Blue

Version number: 2.0
Replaces version of: 01.06.2023 (1)

Hazardous ingredients acc. to GHS Name of substance **Identifier** Wt% Classification acc. to GHS **Pictograms** n-hexane CAS No < 1 Flam. Liq. 2 / H225 110-54-3 Skin Irrit. 2 / H315 Repr. 2 / H361 STOT SE 3 / H336 EC No 203-777-6 STOT RE 2 / H373 Asp. Tox. 1 / H304 Index No Aquatic Chronic 2 / H411 601-037-00-0 REACH Reg. No 01-2119480412-44-xxxx

Name of substance	Specific Conc. Limits	M-Factors	ATE	Exposure route
bioethanol	Eye Irrit. 2; H319: C ≥ 50 %	=	=	

Remarks

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. Take off contaminated clothing. Thaw frosted parts with lukewarm water. Do not rub affected area.

Following eye contact

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

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

Narcotic effects.

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

In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.

Belgium: en Page: 4 / 17



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

Revision: 27.01.2025

AESUB Blue

Version number: 2.0 Replaces version of: 01.06.2023 (1)

Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

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

Follow emergency procedures such as the need to evacuate the danger area or to consult an expert. Remove persons to safety.

For emergency responders

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

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

Advice on how to clean up a spill

Equipment required for containment/clean-up

Non-sparking tools and equipment, Collecting basins for spills, Personal protective equipment

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. Prevent from heating up above 50 °C/122 °F. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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 feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Managing of associated risks

Explosive atmospheres

Use local and general ventilation. Prevent from heating up above 50 °C/122 °F. Protect from sunlight.

- Corrosive conditions

Protect from moisture.

Belgium: en Page: 5 / 17



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

AESUB Blue

Version number: 2.0
Replaces version of: 01.06.2023 (1)
Revision: 27.01.2025

- Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Protect from sunlight.

Control of effects

Do not pierce or burn, even after use.

Protect against external exposure, such as

Heat

- Packaging compatibilities

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

- Storage class (LGK) - TRGS 510

LGK 2 B (aerosol dispensers or lighters)

7.3 Specific end use(s)

Coating

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occup	Occupational exposure limit values (Workplace Exposure Limits)										
Coun- try	Name of agent	CAS No	Identi- fier		TWA [mg/m³]	STEL [ppm]			Ceiling-C [mg/m³]	Nota- tion	Source
EU	n-hexane	110-54-3	IOELV	20	72						2006/15/ EC

Notation

Ceiling-C ceiling value is a limit value above which exposure should not occur

STEL 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 of components of the mixture Name of substance **CAS No Endpoint** Threshold Protection goal, Used in **Exposure time** level route of exposure 287-92-3 DNEL cyclopentane 3,000 mg/m³ human, inhalatory worker (industry) chronic - systemic effects 287-92-3 **DNEL** chronic - systemic efcyclopentane 432 mg/kg human, dermal worker (industry) bw/day fects DNEL cyclopentane 287-92-3 643 mg/m³ human, inhalatory consumer (private chronic - systemic efhouseholds) fects 287-92-3 **DNEL** 214 mg/kg human, dermal consumer (private chronic - systemic efcyclopentane bw/day households) fects 287-92-3 **DNEL** 214 mg/kg human, oral consumer (private chronic - systemic efcyclopentane households) bw/day fects 64-17-5 **DNEL** 1,900 mg/m³ bioethanol human, inhalatory worker (industry) acute - local effects bioethanol 64-17-5 DNEL 343 mg/kg chronic - systemic efhuman, dermal worker (industry) fects bioethanol 64-17-5 **DNEL** 950 mg/m³ human, inhalatory worker (industry) chronic - systemic efbioethanol 64-17-5 DNEL human, oral consumer (private chronic - systemic ef-87 mg/kg households) fects

Belgium: en Page: 6 / 17



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

AESUB Blue

Version number: 2.0 Revision: 27.01.2025 Replaces version of: 01.06.2023 (1)

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
bioethanol	64-17-5	DNEL	206 mg/kg	human, dermal	consumer (private households)	chronic - systemic ef- fects
bioethanol	64-17-5	DNEL	114 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic ef- fects
Hydrocarbons, C6-C7, iso-alkanes, cyclic, < 5% n-hexane		DNEL	13,964 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C6-C7, iso-alkanes, cyclic, < 5% n-hexane		DNEL	5,306 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C6-C7, iso-alkanes, cyclic, < 5% n-hexane		DNEL	1,301 mg/kg	human, oral	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6-C7, iso-alkanes, cyclic, < 5% n-hexane		DNEL	1,377 mg/kg	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6-C7, iso-alkanes, cyclic, < 5% n-hexane		DNEL	1,131 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic, < 5% n-hexane		DNEL	2,035 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic, < 5% n-hexane		DNEL	773 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic, < 5% n-hexane		DNEL	608 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic, < 5% n-hexane		DNEL	699 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic, < 5% n-hexane		DNEL	699 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6, iso- alkanes, <5% n-hexane		DNEL	5,306 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic ef- fects
Hydrocarbons, C6, iso- alkanes, <5% n-hexane		DNEL	13,964 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic ef- fects
Hydrocarbons, C6, iso- alkanes, <5% n-hexane		DNEL	1,131 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects
Hydrocarbons, C6, iso- alkanes, <5% n-hexane		DNEL	1,377 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic ef- fects
Hydrocarbons, C6, iso- alkanes, <5% n-hexane		DNEL	1,301 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic ef- fects
Hydrocarbons, C7, n-al- kanes, iso-alkanes, cyclic		DNEL	300 mg/kg	human, dermal	worker (industry)	chronic - systemic effects
Hydrocarbons, C7, n-al- kanes, iso-alkanes, cyclic		DNEL	2,085 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Hydrocarbons, C7, n-al- kanes, iso-alkanes, cyclic		DNEL	149 mg/kg	human, oral	consumer (private households)	chronic - systemic effects

Belgium: en Page: 7 / 17



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

AESUB Blue

Version number: 2.0
Replaces version of: 01.06.2023 (1)

Relevant DNELs of components of the mixture

Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Hydrocarbons, C7, n-al- kanes, iso-alkanes, cyclic		DNEL	149 mg/kg	human, dermal	consumer (private households)	chronic - systemic effects
Hydrocarbons, C7, n-al- kanes, iso-alkanes, cyclic		DNEL	447 mg/m ³	human, inhalatory	consumer (private households)	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
n-hexane	110-54-3	DNEL	4 mg/kg	human, oral	consumer (private households)	chronic - systemic effects
n-hexane	110-54-3	DNEL	5.3 mg/kg	human, dermal	consumer (private households)	chronic - systemic effects
n-hexane	110-54-3	DNEL	16 mg/m ³	human, inhalatory	consumer (private households)	chronic - systemic effects

Relevant PNECs of components

Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
bioethanol	64-17-5	PNEC	0.96 ^{mg} / _l	aquatic organisms	freshwater	short-term (single in- stance)
bioethanol	64-17-5	PNEC	0.79 ^{mg} / _l	aquatic organisms	marine water	short-term (single in- stance)
bioethanol	64-17-5	PNEC	580 ^{mg} / _l	aquatic organisms	sewage treatment plant (STP)	short-term (single in- stance)
bioethanol	64-17-5	PNEC	3.6 ^{mg} / _{kg}	aquatic organisms	freshwater sediment	short-term (single in- stance)
bioethanol	64-17-5	PNEC	0.63 ^{mg} / _{kg}	terrestrial organisms	soil	short-term (single in- stance)
bioethanol	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

Butyl rubber; Layer thickness: 0.7 mm; Break through time: 240 min. 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. Check leak-tightness/impermeability prior to use. Do not wear gloves near rotary machines or tools.

- Other protection measures

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

Belgium: en Page: 8 / 17



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

AESUB Blue

Version number: 2.0
Replaces version of: 01.06.2023 (1)
Revision: 27.01.2025

Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. Type: AX (gas filters and combined filters against low-boiling point organic compounds, colour code: Brown).

Environmental exposure controls

The disposal by sewage disposal systems is generally not allowed.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state spray aerosol
Colour colourless - clear
Odour characteristic
Melting point/freezing point not determined
Boiling point or initial boiling point and boiling range not determined

Flammability flammable aerosol in accordance with GHS criteria

Lower and upper explosion limit 0.6 vol% - 15 vol% Flash point -87 °C at 1,013 hPa

calculated value, referring to a component of the mix-

ture

Auto-ignition temperature >200 °C (auto-ignition temperature (liquids and gases))

Decomposition temperature not relevant
pH (value) not applicable
Kinematic viscosity not relevant
Solubility(ies) not determined

Partition coefficient

Partition coefficient n-octanol/water (log value) this information is not available

Vapour pressure not determined

Density and/or relative density

Density $0.75 - 0.78 \, {}^{9}/_{cm^3}$ at 20 $\, {}^{\circ}$ C

Relative vapour density information on this property is not available

Particle characteristics not relevant (aerosol)

Decomposition temperature not determined

9.2 Other information 90.6 % by mass of the contents are flammable

Information with regard to physical hazard classes

Aerosols

- Components (flammable) 90.6 %

Other safety characteristics there is no additional information

Belgium: en Page: 9 / 17



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

AESUB Blue

Version number: 2.0 Replaces version of: 01.06.2023 (1)

Revision: 27.01.2025

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".

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.

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 hazard classes as defined in Regulation (EC) No 1272/2008

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.

GHS of the United Nations, annex 4: May be harmful if swallowed or if inhaled.

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.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Belgium: en Page: 10 / 17



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

AESUB Blue

Version number: 2.0
Replaces version of: 01.06.2023 (1)

11.2 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

	Aquatic toxicity	v (acute)	of com	ponents
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Name of substance	CAS No	Endpoint	Value	Species	Exposure time
cyclopentane	287-92-3	LL50	29.3 ^{mg} / _l	fish	96 h
cyclopentane	287-92-3	EL50	51.15 ^{mg} / _l	aquatic invertebrates	48 h
propane	74-98-6	LC50	27.98 ^{mg} / _l	fish	96 h
propane	74-98-6	EC50	7.71 ^{mg} / _l	algae	96 h
bioethanol	64-17-5	LC50	15,400 ^{mg} / _I	fish	96 h
bioethanol	64-17-5	EC50	12,700 ^{mg} / _l	fish	96 h
bioethanol	64-17-5	ErC50	22,000 ^{mg} / _l	algae	96 h
Hydrocarbons, C6-C7, iso-alkanes, cyclic, < 5% n-hexane		LL50	12 ^{mg} / _I	fish	96 h
Hydrocarbons, C6-C7, so-alkanes, cyclic, < 5% n-hexane		EL50	17.06 ^{mg} / _l	aquatic invertebrates	48 h
Hydrocarbons, C6-C7, n- lkanes, iso-alkanes, cyc- lic, < 5% n-hexane		LL50	15.8 ^{mg} / _l	fish	72 h
Hydrocarbons, C6-C7, n- lkanes, iso-alkanes, cyc- lic, < 5% n-hexane		LC50	0.11 ^{mg} / _l	fish	96 h
Hydrocarbons, C6-C7, n- lkanes, iso-alkanes, cyc- lic, < 5% n-hexane		EL50	12 ^{mg} / _l	aquatic invertebrates	24 h
Hydrocarbons, C6-C7, n- lkanes, iso-alkanes, cyc- lic, < 5% n-hexane		EC50	0.64 ^{mg} / _I	aquatic invertebrates	48 h
Hydrocarbons, C6, iso-al- kanes, <5% n-hexane		LL50	18.27 ^{mg} / _l	fish	96 h
lydrocarbons, C6, iso-al- kanes, <5% n-hexane		EL50	31.9 ^{mg} / _l	aquatic invertebrates	48 h
Hydrocarbons, C7, n-al- anes, iso-alkanes, cyclic		LL50	>13.4 ^{mg} / _I	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) of components

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
bioethanol	64-17-5	EC50	22.6 ^g / _l	algae	10 d
bioethanol	64-17-5	LC50	1,806 ^{mg} / _I	aquatic invertebrates	10 d

Belgium: en Page: 11 / 17



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

AESUB Blue

Version number: 2.0 Revision: 27.01.2025 Replaces version of: 01.06.2023 (1)

Aquatic toxicity (chronic) of components Name of substance CAS No Endpoint

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
bioethanol	64-17-5	ErC50	675 ^{mg} / _l	algae	4 d
Hydrocarbons, C6-C7, n- alkanes, iso-alkanes, cyc- lic, < 5% n-hexane		EL50	1.6 ^{mg} / _l	aquatic invertebrates	21 d
Hydrocarbons, C6-C7, n- alkanes, iso-alkanes, cyc- lic, < 5% n-hexane		EC50	0.23 ^{mg} / _l	aquatic invertebrates	21 d

12.2 Persistence and degradability

Degradability of components

Name of sub- stance	CAS No	Process	Degradation rate	Time	Method	Source
cyclopentane	287-92-3	carbon dioxide generation	0 %	28 d		ECHA
bioethanol	64-17-5	oxygen depletion	69 %	5 d		ECHA
Hydrocarbons, C6-C7, iso-al- kanes, cyclic, < 5% n-hexane		oxygen depletion	83 %	10 d		ECHA
Hydrocarbons, C6-C7, n-alkanes, iso-alkanes, cyclic, < 5% n-hexane		oxygen depletion	83 %	16 d		ECHA
Hydrocarbons, C6, iso-alkanes, <5% n-hexane		oxygen depletion	83 %	10 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
cyclopentane	287-92-3	70.8	3 (pH value: 7, 25 °C)	
propane	74-98-6		1.09 (pH value: 7, 20 °C)	
bioethanol	64-17-5		-0.77	0.6211
Tricyclo[3.3.1.13,7]decane	281-23-2		4.24	
Hydrocarbons, C6-C7, n-alkanes, iso- alkanes, cyclic, < 5% n-hexane		≥26.26 - ≤315.7	≥2.96 - ≤3.78 (pH value: ~7, 20 °C)	
Hydrocarbons, C6, iso-alkanes, <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

Does not contain a PBT-/vPvB-substance at a concentration of $\geq 0,1\%$.

Belgium: en Page: 12 / 17



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

AESUB Blue

Version number: 2.0
Replaces version of: 01.06.2023 (1)

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0,1\%$.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The disposal by sewage disposal systems is generally not allowed.

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.

Relevant provisions relating to waste

List of wastes 16 05 04

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.

SECTION 14: Transport information

14.1 UN number or ID number

ADR/RID/ADN UN 1950 IMDG-Code UN 1950 ICAO-TI UN 1950

14.2 UN proper shipping name

ADR/RID/ADN AEROSOLS IMDG-Code AEROSOLS

ICAO-TI Aerosols, flammable

14.3 Transport hazard class(es)

ADR/RID/ADN 2 (2.1)
IMDG-Code 2.1
ICAO-TI 2.1

14.4 Packing group not assigned

14.5 Environmental hazards 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 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Belgium: en Page: 13 / 17



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

AESUB Blue

Version number: 2.0 Revision: 27.01.2025 Replaces version of: 01.06.2023 (1)

Information for each of the UN Model Regulations

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

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) - Additional information

Marine pollutant Danger label(s) 2.1



Special provisions (SP) 63, 190, 277, 327, 344, 381, 959

Excepted quantities (EQ) E0
Limited quantities (LQ) 1 L
EmS F-D, S-U

Stowage category -

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Danger label(s) 2.1



Special provisions (SP) A145, A167

Excepted quantities (EQ) E0
Limited quantities (LQ) 30 kg

Belgium: en Page: 14 / 17



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

AESUB Blue

Version number: 2.0 Revision: 27.01.2025 Replaces version of: 01.06.2023 (1)

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)

List of substances subject to authorisation (REACH, Annex XIV) / SVHC - candidate list none of the ingredients are listed

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety-rel- evant
2.2	- Hazardous ingredients for labelling: cyclopentane, Hydrocarbons, C6-C7, isoalkanes, cyclics, <5% n-hexane, Hydrocarbons, C6-C7, n-alkanes, isoalkanes, cyclics, <5% n-hexane, Hydrocarbons, C7, n-alkanes, isoalkanes, cyclics	- Hazardous ingredients for labelling: cyclopentane, Hydrocarbons, C6-C7, iso-alkanes, cyclic, < 5% n-hexane, Hydrocarbons, C6-C7, n-al- kanes, iso-alkanes, cyclic, < 5% n-hexane, Hydrocar- bons, C7, n-alkanes, iso-alkanes, cyclic	yes
2.3	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance in a concentration of ≥ 0,1%.	Results of PBT and vPvB assessment: Does not contain a PBT-/vPvB-substance at a concentration of ≥ 0,1%.	yes
2.3	Endocrine disrupting properties: Does not contain an endocrine disruptor (EDC) in a concentration of ≥ 0,1%.	Endocrine disrupting properties: Does not contain an endocrine disruptor (ED) at a concentration of ≥ 0,1%.	yes
5.2	Special hazards arising from the substance or mixture	Special hazards arising from the substance or mixture: In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture.	yes
7.2	- Storage class (LGK) - TRGS 510: LGK 2 B (aerosol dispensers and lighters)	- Storage class (LGK) - TRGS 510: LGK 2 B (aerosol dispensers or lighters)	yes

Abbreviations and acronyms

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 relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
ADR/RID/ADN	Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
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

Belgium: en Page: 15 / 17



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

AESUB Blue

Version number: 2.0 Revision: 27.01.2025 Replaces version of: 01.06.2023 (1)

Abbr.	Descriptions of used abbreviations	
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures	
COD	Chemical oxygen demand	
DGR	Dangerous Goods Regulations (see IATA/DGR)	
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)	
ED	Endocrine disruptor	
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	
Eye Dam.	Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye	
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	
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air	
IMDG	International Maritime Dangerous Goods Code	
IMDG-Code	International Maritime Dangerous Goods Code	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
IOELV	Indicative occupational exposure limit value	
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval	
LGK	Lagerklasse (storage class according to TRGS 510, Germany)	
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality	
log KOW	n-Octanol/water	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
ppm	Parts per million	
Press. Gas	Gas under pressure	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
Repr.	Reproductive toxicity	

Belgium: en Page: 16 / 17



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

AESUB Blue

Version number: 2.0 Revision: 27.01.2025 Replaces version of: 01.06.2023 (1)

Abbr.	Descriptions of used abbreviations
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
SVHC	Substance of Very High Concern
TRGS	Technische Regeln für Gefahrstoffe (technical rules for hazardous substances, Germany)
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures. Regulation (EC) No. 1907/2006 (REACH), amended by 2020/878/EU.

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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 section 2 and 3)

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.
H319	Causes serious eye 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.
H413	May cause long lasting harmful effects to aquatic life.

Disclaimer

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

Belgium: en Page: 17 / 17