

# Safety Data Sheet

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



## AESUB Orange

Version number: GHS 1.2

Date of compilation: 28.05.2021

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

#### 1.1 Product identifier

Trade name **AESUB Orange**  
Registration number (REACH) not relevant (mixture)

#### 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 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)

| Country  | Name  | Postal code/city | Telephone    | Telefax | Opening hours           |
|----------|---|------------------|--------------|---------|-------------------------|
| Bulgaria | 24 Hour Emergency Contact Phone Number (WISAG) - Bulgaria | Plovdiv          | 359-32570104 |         | 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     | 1        | Aerosol 1                 | H222,H229        |

For full text of abbreviations: see SECTION 16.

#### 2.2 Label elements

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

- Signal word **danger**

- Pictograms

GHS02



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### - Hazard statements

H222 Extremely flammable aerosol.  
H229 Pressurised container: May burst if heated.

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

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

Extremely flammable. Pressurised 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.

### 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

| Hazardous ingredients acc. to GHS |   |           |  |            |
|-----------------------------------|---|-----------|--|------------|
| Name of substance                 | Identifier  | Wt%       | Classification acc. to GHS                 | Pictograms |
| butane                            | CAS No<br>106-97-8<br><br>EC No<br>203-448-7<br><br>REACH Reg. No<br>01-2119474691-32-xxxx                                | 50 – < 75 | Flam. Gas 1A / H220<br>Press. Gas L / H280 |            |
| bioethanol                        | CAS No<br>64-17-5<br><br>EC No<br>200-578-6<br><br>Index No<br>603-002-00-5<br><br>REACH Reg. No<br>01-2119457610-43-xxxx | 10 – < 25 | Flam. Liq. 2 / H225<br>Eye Irrit. 2 / H319 |            |
| propane                           | CAS No<br>74-98-6<br><br>EC No<br>200-827-9<br><br>REACH Reg. No<br>01-2119486944-21-xxxx                                 | 10 – < 25 | Flam. Gas 1A / H220<br>Press. Gas L / H280 |            |

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| Hazardous ingredients acc. to GHS |   |           |   |                |
|-----------------------------------|---|-----------|---|----------------|
| Name of substance                 | Identifier  | Wt%       | Classification acc. to GHS  | Pictograms     |
| cyclopentane                      | CAS No<br>287-92-3<br><br>EC No<br>206-016-6<br><br>Index No<br>601-030-00-2<br><br>REACH Reg. No<br>01-2119463053-47     | 5 - < 10  | Flam. Liq. 2 / H225<br>STOT SE 3 / H336<br>Asp. Tox. 1 / H304<br>Aquatic Chronic 3 / H412<br>EUH066 |                |
| isobutane                         | CAS No<br>75-28-5<br><br>EC No<br>200-857-2<br><br>Index No<br>601-004-00-0<br><br>REACH Reg. No<br>01-2119485395-27-xxxx | 1 - < 5   | Flam. Gas 1A / H220<br>Press. Gas L / H280<br>Aquatic Chronic 3 / H412                              |                |
| Name of substance                 | Specific Conc. Limits   | M-Factors | ATE   | Exposure route |
| bioethanol                        | Eye Irrit. 2; H319: C ≥ 50 %  | -         | -   |                |

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

Symptoms and effects are not known to date.

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### 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 (CO<sub>2</sub>)

### 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.

### 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.

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### 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.

- 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

- Specific designs for storage rooms or vessels

- Maximum storage period

Best before date

- 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 and lighters)

#### 7.3 Specific end use(s)

Coating

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

This information is not available.

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| 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     | 1.900 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry)             | acute - local effects      |
| bioethanol                                  | 64-17-5  | DNEL     | 343 mg/kg               | human, dermal                      | worker (industry)             | chronic - systemic effects |
| bioethanol                                  | 64-17-5  | DNEL     | 950 mg/m <sup>3</sup>   | human, inhalatory                  | worker (industry)             | chronic - systemic effects |
| bioethanol                                  | 64-17-5  | DNEL     | 87 mg/kg                | human, oral                        | consumer (private households) | chronic - systemic effects |
| bioethanol                                  | 64-17-5  | DNEL     | 206 mg/kg               | human, dermal                      | consumer (private households) | chronic - systemic effects |
| bioethanol                                  | 64-17-5  | DNEL     | 114 mg/m <sup>3</sup>   | human, inhalatory                  | consumer (private households) | chronic - systemic effects |
| cyclopentane                                | 287-92-3 | DNEL     | 3.000 mg/m <sup>3</sup> | human, inhalatory                  | worker (industry)             | chronic - systemic effects |
| cyclopentane                                | 287-92-3 | DNEL     | 432 mg/kg bw/day        | human, dermal                      | worker (industry)             | chronic - systemic effects |
| cyclopentane                                | 287-92-3 | DNEL     | 643 mg/m <sup>3</sup>   | human, inhalatory                  | consumer (private households) | chronic - systemic effects |
| cyclopentane                                | 287-92-3 | DNEL     | 214 mg/kg bw/day        | human, dermal                      | consumer (private households) | chronic - systemic effects |
| cyclopentane                                | 287-92-3 | DNEL     | 214 mg/kg bw/day        | human, oral                        | consumer (private households) | chronic - systemic effects |

| Relevant PNECs of components of the mixture |         |          |                 |                       |                              |                              |
|---|---------|----------|-----------------|-----------------------|------------------------------|------------------------------|
| 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 instance) |
| bioethanol                                  | 64-17-5 | PNEC     | 0,79 mg/l       | aquatic organisms     | marine water                 | short-term (single instance) |
| bioethanol                                  | 64-17-5 | PNEC     | 580 mg/l        | aquatic organisms     | sewage treatment plant (STP) | short-term (single instance) |
| bioethanol                                  | 64-17-5 | PNEC     | 3,6 mg/kg       | aquatic organisms     | freshwater sediment          | short-term (single instance) |
| bioethanol                                  | 64-17-5 | PNEC     | 0,63 mg/kg      | terrestrial organisms | soil                         | short-term (single instance) |
| bioethanol                                  | 64-17-5 | PNEC     | 2,75 mg/l       | aquatic organisms     | water                        | intermittent release         |

## 8.2 Exposure controls

Appropriate engineering controls  
General ventilation.

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### 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.

### Respiratory protection

[In case of inadequate ventilation] wear respiratory protection. Type: ABEK-P2 (combined filters against gases, vapours and particles, colour code: Brown/Grey/Yellow/Green/White).

### 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   | liquid, solid, gaseous (spray aerosol)   |
| Colour   | not determined   |
| Odour  | characteristic   |
| Melting point/freezing point                             | -187,6 °C at 1.013 hPa   |
| Boiling point or initial boiling point and boiling range | -161,5 °C at 1.013 hPa   |
| Flammability   | flammable aerosol in accordance with GHS criteria                                  |
| Lower and upper explosion limit                          | 1,1 vol% - 15 vol%   |
| Flash point  | -88,6 °C at 1.013 hPa<br>calculated value, referring to a component of the mixture |
| Auto-ignition temperature                                | 287 °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  | 5,254 PSI at 70 °F   |

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Density and/or relative density

Density not determined

Relative vapour density information on this property is not available

Particle characteristics not relevant (aerosol)

Decomposition temperature not determined

### 9.2 Other information

92,99 % by mass of the contents are flammable

Information with regard to physical hazard classes

Aerosols

- Components (flammable)

92,99 %

Other safety characteristics

there is no additional information

## 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.



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### 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

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

### 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.

## 11.2 Information on other hazards

There is no additional information.

## SECTION 12: Ecological information

### 12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

| Aquatic toxicity (acute) of components of the mixture |          |          |             |                       |               |
|---|----------|----------|-------------|-----------------------|---------------|
| Name of substance                                     | CAS No   | Endpoint | Value       | Species               | Exposure time |
| butane  | 106-97-8 | LC50     | 27,98 mg/l  | fish                  | 96 h          |
| butane  | 106-97-8 | EC50     | 7,71 mg/l   | algae                 | 96 h          |
| bioethanol  | 64-17-5  | LC50     | 15.400 mg/l | 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          |
| propane   | 74-98-6  | LC50     | 27,98 mg/l  | fish                  | 96 h          |
| propane   | 74-98-6  | EC50     | 7,71 mg/l   | algae                 | 96 h          |
| 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          |

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| Aquatic toxicity (acute) of components of the mixture |         |          |            |         |               |
|---|---------|----------|------------|---------|---------------|
| Name of substance                                     | CAS No  | Endpoint | Value      | Species | Exposure time |
| isobutane   | 75-28-5 | LC50     | 49,9 mg/l  | fish    | 96 h          |
| isobutane   | 75-28-5 | EC50     | 19,37 mg/l | algae   | 96 h          |

| Aquatic toxicity (chronic) of components of the mixture |         |          |            |                       |               |
|---|---------|----------|------------|-----------------------|---------------|
| 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/l | aquatic invertebrates | 10 d          |
| bioethanol  | 64-17-5 | ErC50    | 675 mg/l   | algae                 | 4 d           |

### 12.2 Persistence and degradability

Data are not available.

### 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 |
| butane   | 106-97-8 |      | 1,09 (pH value: 7, 20 °C) |          |
| bioethanol   | 64-17-5  |      | -0,77                     | 0,6211   |
| propane  | 74-98-6  |      | 1,09 (pH value: 7, 20 °C) |          |
| cyclopentane   | 287-92-3 | 70,8 | 3 (pH value: 7, 25 °C)    |          |
| isobutane  | 75-28-5  |      | 1,09 (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 Endocrine disrupting properties

Information on this property is not available.

### 12.7 Other adverse effects

Data are not available.

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### 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.

#### Information for each of the UN Model Regulations

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### 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

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### 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

##### 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

#### Abbreviations and acronyms

| Abbr.           | Descriptions of used abbreviations  |
|-----------------|---|
| 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)                                       |
| ADR/RID/ADN     | European Agreements concerning the International Carriage of Dangerous Goods by Road/Rail/Inland Waterways (ADR/RID/ADN)  |
| 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)  |
| 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)                                     |
| EINECS          | European Inventory of Existing Commercial Chemical Substances   |

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| Abbr.      | Descriptions of used abbreviations  |
|------------|---|
| 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  |
| 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   |
| Press. Gas | Gas under pressure  |
| REACH      | Registration, Evaluation, Authorisation and Restriction of Chemicals  |
| RID        | Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail) |
| 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)  |
| vPvB       | Very Persistent and very Bioaccumulative  |

# Safety Data Sheet

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



## AESUB Orange

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### 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 chapter 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.       |
| H319 | Causes serious eye irritation.                      |
| H336 | May cause drowsiness or dizziness.                  |
| H412 | Harmful to aquatic life with long lasting effects.  |

### Disclaimer

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