

Scanningspray Vertriebs GmbH  
45657 Recklinghausen

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

### 1.1 Product identifier

**Aesub white**

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

#### 1.2.1 Relevant uses

Coating

#### 1.2.2 Uses advised against

None known.

### 1.3 Details of the supplier of the safety data sheet

#### Company

Scanningspray Vertriebs GmbH  
Johann-Strauß-Str. 13  
45657 Recklinghausen / GERMANY  
Phone +49(0)2361-8903357  
Homepage [www.aesub.com](http://www.aesub.com)  
E-mail [info@aesub.com](mailto:info@aesub.com)

#### Address enquiries to

##### Technical information

[info@aesub.com](mailto:info@aesub.com)

##### Safety Data Sheet

[sdb@chemiebuero.de](mailto:sdb@chemiebuero.de)

### 1.4 Emergency telephone number

#### Company

+49 (0) 177 4818358 during business hours 7am – 5pm (Central European Time, CET)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Aerosol 1: H222 Extremely flammable aerosol. H229 Pressurised container: May burst if heated.

### 2.2 Label elements

The product is required to be labelled in accordance with the hazard criterias of the "Hazardous Product Regulation" - HPR [WHMIS 2015].

#### Hazard pictograms



#### Signal word

DANGER

#### 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.

### 2.3 Other hazards

#### Environmental hazards

Does not contain any PBT or vPvB substances.

#### Other hazards

Further hazards were not determined with the current level of knowledge.

## SECTION 3: Composition / Information on ingredients

### 3.1 Substances

not applicable

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### 3.2 Mixtures

The product is a mixture.

Range [%]	Substance
50 - < 25	Butane
	CAS: 106-97-8
10 - < 25	Propane
	CAS: 74-98-6
10 - < 25	Ethanol
	CAS: 64-17-5
1 - < 5	iso-Butane
	CAS: 75-28-5

#### Comment on component parts

All chemical substances in this material are included on or exempted from listing on the DSL Inventory.  
For full text of H-statements: see SECTION 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Take off contaminated clothing and wash before reuse.

#### Inhalation

Ensure supply of fresh air.  
In the event of symptoms seek medical treatment.

#### Skin contact

When in contact with the skin, clean with soap and water.  
Consult a doctor if skin irritation persists.

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

#### Ingestion

Seek medical advice immediately.  
Rinse out mouth and give plenty of water to drink.  
Do not induce vomiting.

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

No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

foam, dry powder, water spray jet, carbon dioxide

#### Extinguishing media that must not be used

Full water jet.

### 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.  
Bursting aerosols can be forcibly projected from a fire.

### 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.  
Use self-contained breathing apparatus.

Cool containers at risk with water spray jet.  
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.  
Ensure adequate ventilation.  
Use breathing apparatus if exposed to vapours/aerosol.

### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.  
Retain and dispose of contaminated wash water.

### 6.3 Methods and material for containment and cleaning up

Take up mechanically.  
Take up residues with absorbent material (f.ex. diatomaceous earth).  
Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Use only in well-ventilated areas.  
Use solvent-resistant equipment.  
Provide good room ventilation even at ground level (vapours are heavier than air).  
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.  
Vapours can form an explosive mixture with air.  
Do not eat, drink, smoke or take drugs at work.  
Take off contaminated clothing and wash before reuse.  
Wash hands before breaks and after work.  
Use barrier skin cream.

### 7.2 Conditions for safe storage, including any incompatibilities

Provide solvent-resistant and impermeable floor.  
Prevent penetration into the ground.  
Do not store together with oxidizing agents.  
Keep in a cool place, heat causes increase in pressure and risk of bursting.  
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50 °C.

### 7.3 Specific end use(s)

See product use, SECTION 1.2

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**SECTION 8: Exposure controls / personal protection**

**8.1 Control parameters**

**Ingredients with occupational exposure limits to be monitored (CA)**

Substance
Butane
CAS: 106-97-8
Long-term exposure: 800 ppm, 1900 mg/m <sup>3</sup>
Ethanol
CAS: 64-17-5
Long-term exposure: 1000 ppm, 1880 mg/m <sup>3</sup>
Propane
CAS: 74-98-6
Long-term exposure: 1000 ppm, 1800 mg/m <sup>3</sup>

**DNEL**

Substance
Propane, CAS: 74-98-6
There are no DNEL values established for the substance.
Ethanol, CAS: 64-17-5
Industrial, dermal, Long-term - systemic effects, 343 mg/kg bw/day
Industrial, inhalative (vapor), Long-term - systemic effects, 950 mg/m <sup>3</sup>
general population, oral, Long-term - systemic effects, 87 mg/kg bw/day
general population, dermal, Long-term - systemic effects, 206 mg/kg bw/day
general population, inhalative (vapor), Long-term - systemic effects, 114 mg/m <sup>3</sup>

**PNEC**

Substance
Propane, CAS: 74-98-6
There are no PNEC values established for the substance.
Ethanol, CAS: 64-17-5
sewage treatment plants (STP), 580 mg/L
sediment (seawater), 2,9 mg/kg sediment dw
soil, 0,63 mg/kg soil dw
sediment (freshwater), 3,6 mg/kg sediment dw
oral (food), 0,38 g/kg
seawater, 0,79 mg/l
freshwater, 0,96 mg/l

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## 8.2 Exposure controls

<b>Additional advice on system design</b>	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
<b>Eye protection</b>	Safety glasses. (EN 166:2001)
<b>Hand protection</b>	The details concerned are recommendations. Please contact the glove supplier for further information. 0,7 mm; Butyl rubber, >480 min (EN 374-1/-2/-3).
<b>Skin protection</b>	Solvent-resistant protective clothing (EN 340)
<b>Other</b>	Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
<b>Respiratory protection</b>	Breathing apparatus in the event of high concentrations. Short term: filter apparatus, filter AX.
<b>Thermal hazards</b>	No information available.
<b>Delimitation and monitoring of the environmental exposition</b>	Protect the environment by applying appropriate control measures to prevent or limit emissions.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	aerosol
<b>Color</b>	various
<b>Odor</b>	characteristic
<b>Odour threshold</b>	No information available.
<b>pH-value</b>	not applicable
<b>pH-value [1%]</b>	not applicable
<b>Boiling point [°C]</b>	not applicable
<b>Flash point [°C]</b>	not applicable
<b>Flammability (solid, gas) [°C]</b>	not applicable
<b>Lower explosion limit</b>	2,5 Vol.-%
<b>Upper explosion limit</b>	15 Vol.-%
<b>Oxidizing properties</b>	no
<b>Vapour pressure/gas pressure [kPa]</b>	5,7 (20°C)
<b>Density [g/cm³]</b>	No information available.
<b>Relative density</b>	not determined
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	insoluble
<b>Solubility other solvents</b>	No information available.
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Kinematic viscosity</b>	not applicable
<b>Relative vapour density</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	not applicable
<b>Auto-ignition temperature</b>	287
<b>Decomposition temperature [°C]</b>	not applicable
<b>Particle characteristics</b>	No information available.

### 9.2 Other information

none

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

### 10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).

### 10.3 Possibility of hazardous reactions

Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

### 10.4 Conditions to avoid

Strong heating.  
See SECTION 7.2.

### 10.5 Incompatible materials

Oxidizing agent

### 10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute oral toxicity**

Product
oral, Based on the available information, the classification criteria are not fulfilled.
Substance
Ethanol, CAS: 64-17-5
LD50, oral, Rat, 10470 mg/kg (OECD 401)

**Acute dermal toxicity**

Product
dermal, Based on the available information, the classification criteria are not fulfilled.
Substance
Ethanol, CAS: 64-17-5
LD50, dermal, Rabbit, > 2000 mg/kg (OECD 402)

**Acute inhalational toxicity**

Product
inhalative, Based on the available information, the classification criteria are not fulfilled.
Substance
iso-Butane, CAS: 75-28-5
LC50, inhalative, mouse, 1237 mg/l (2h) (Lit.)
Propane, CAS: 74-98-6
LC50, inhalative, Rat, > 1443 mg/l (15 min) (Lit.)
Butane, CAS: 106-97-8
LC50, inhalative, Rat, 658 mg/l (4 h) (Lit.)
Ethanol, CAS: 64-17-5
LC50, inhalative, Rat, 117-125 mg/l/4h (OECD 403)

**Serious eye damage/irritation**

Based on the available information, the classification criteria are not fulfilled.

Substance
Propane, CAS: 74-98-6
Eye, non-irritating
Ethanol, CAS: 64-17-5
Eye, irritant

**Skin corrosion/irritation**

Based on the available information, the classification criteria are not fulfilled.

Substance
Propane, CAS: 74-98-6
dermal, non-irritating
Ethanol, CAS: 64-17-5
dermal, non-irritating

**Respiratory or skin sensitisation**

Based on the available information, the classification criteria are not fulfilled.

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Substance
Propane, CAS: 74-98-6
inhalative, non-sensitizing
dermal, non-sensitizing
Ethanol, CAS: 64-17-5
dermal, non-sensitizing

**Specific target organ toxicity — single exposure** — Based on the available information, the classification criteria are not fulfilled.

Substance
Propane, CAS: 74-98-6
inhalative, non-irritating

**Specific target organ toxicity — repeated exposure** — Based on the available information, the classification criteria are not fulfilled.

Substance
iso-Butane, CAS: 75-28-5
NOAEC, inhalative, Rat, 4437 mg/m <sup>3</sup>
Propane, CAS: 74-98-6
NOAEC, inhalative, Rat, 4437 mg/m <sup>3</sup>
Ethanol, CAS: 64-17-5
NOAEL, oral, mouse, 9400 mg/kg bw/day (subchronic), no adverse effect observed

**Mutagenicity** — Based on the available information, the classification criteria are not fulfilled.

**Reproduction toxicity** — Based on the available information, the classification criteria are not fulfilled.

Substance
Ethanol, CAS: 64-17-5
NOAEL, oral, mouse, 20700 mg/kg bw/day (subchronic), no adverse effect observed

**Carcinogenicity** — Based on the available information, the classification criteria are not fulfilled.

**Aspiration hazard** — Based on the available information, the classification criteria are not fulfilled.

**General remarks**

Frequent persistent contact with the skin can cause skin irritation.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturer. Toxicological data of complete product are not available. The determination of properties hazardous to health does not take the propellant or carrier material into account.

## SECTION 12: Ecological information

### 12.1 Toxicity

Substance
Ethanol, CAS: 64-17-5
LC50, (96h), <i>Oncorhynchus mykiss</i> , 13000 mg/l (OECD 203)
LC50, (48h), <i>Daphnia magna</i> , 12340 mg/l
EC50, (72h), Algae, 275 mg/l (OECD 201)
EC50, (48h), <i>Selenastrum capricornutum</i> , 12900 mg/l (OECD 201)



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## 12.2 Persistence and degradability

Behaviour in environment compartments	No information available.
Behaviour in sewage plant	No information available.
Biological degradability	No information available.

## 12.3 Bioaccumulative potential

No information available.

## 12.4 Mobility in soil

not applicable

## 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

## 12.7 Other adverse effects

Ecotoxicological data are not available.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

Do not discharge product unmonitored into the environment.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with national and local regulations.

#### Product

Dispose of as hazardous waste.  
Coordinate disposal with the authorities if necessary.

#### Contaminated packaging

Uncontaminated packaging may be taken for recycling.  
Dispose full / partially emptied cartridges as hazardous waste in accordance with official regulations.

## SECTION 14: Transport information

### 14.1 UN number

Transport by land according to ADR/RID 1950

Inland navigation (ADN) 1950

Marine transport in accordance with IMDG 1950

Air transport in accordance with IATA 1950

Canadian Code for the Transportation of Dangerous Goods (TDG) 1950


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#### 14.2 UN proper shipping name

Transport by land according to ADR/RID Aerosols  
- Classification Code 5F  
- Label   
- ADR LQ 1 I  
- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D)

Inland navigation (ADN) Aerosols  
- Classification Code 5F  
- Label 

Marine transport in accordance with IMDG Aerosols  
- EMS F-D, S-U  
- Label   
- IMDG LQ 1 I

Air transport in accordance with IATA Aerosols, flammable  
- Label 

Canadian Code for the Transportation of Dangerous Goods (TDG) UN 1950 Aerosols 2  
- Label 

#### 14.3 Transport hazard class(es)

Transport by land according to ADR/RID 2  
Inland navigation (ADN) 2  
Marine transport in accordance with IMDG 2.1  
Air transport in accordance with IATA 2.1  
Canadian Code for the Transportation of Dangerous Goods (TDG) 2

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#### 14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

Canadian Code for the Transportation of Dangerous Goods (TDG) not applicable

#### 14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

Canadian Code for the Transportation of Dangerous Goods (TDG) no

#### 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

#### 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

not determined

### SECTION 15: Regulatory information

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

**TRANSPORT-REGULATIONS** TDG-Regulations; ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2021)

**NATIONAL REGULATIONS (CA):** HPR-Hazardous Products Regulations (SOR/2015-17); WHMIS 2015;

- Observe employment restrictions for people Observe employment restrictions for young people.

- VOC - Volatile Organic Compounds ca. 91%

#### 15.2 Chemical safety assessment

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## SECTION 16: Other information

### 16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route  
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses  
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ATE = acute toxicity estimate  
CAS = Chemical Abstracts Service  
CLP = Classification, Labelling and Packaging  
DMEL = Derived Minimum Effect Level  
DNEL = Derived No Effect Level  
EC50 = Median effective concentration  
ECB = European Chemicals Bureau  
EEC = European Economic Community  
EINECS = European Inventory of Existing Commercial Chemical Substances  
EL50 = Median effective loading  
ELINCS = European List of Notified Chemical Substances  
EmS = Emergency Schedules  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
IATA = International Air Transport Association  
IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk  
IC50 = Inhibition concentration, 50%  
IMDG = International Maritime Code for Dangerous Goods  
IUCLID = International Uniform Chemical Information Database  
LC50 = Lethal concentration, 50%  
LD50 = Median lethal dose  
LC0 = lethal concentration, 0%  
LOAEL = lowest-observed-adverse-effect level  
LL50 = Median lethal loading  
LQ = Limited Quantities  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships  
NOAEL = No Observed Adverse Effect Level  
NOEC = No Observed Effect Concentration  
PBT = Persistent, Bioaccumulative and Toxic substance  
PNEC = Predicted No-Effect Concentration  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals  
STP = Sewage Treatment Plant  
TLV@/TWA = Threshold limit value – time-weighted average  
TLV@STEL = Threshold limit value – short-time exposure limit  
VOC = Volatile Organic Compounds  
vPvB = very Persistent and very Bioaccumulative

### 16.2 Other information

#### Classification procedure

Aerosol 1: H222 Extremely flammable aerosol. (Bridging principle "Aerosols") H229  
Pressurised container: May burst if heated. (Bridging principle "Aerosols")

#### Modified position

SECTION 11 been added: Contains no ingredients with endocrine-disrupting properties.



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