

**Scanningspray Vertriebs UG (haftungsbeschränkt)**  
**44225 Dortmund**

Date printed 13.08.2019, Revision 05.08.2019

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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**

permanent surface preparation

**1.2.2 Uses advised against**

None known.

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

**Company**

Scanningspray Vertriebs UG (haftungsbeschränkt)  
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**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**

**Advisory body**

+49 (0)1761-19240 (24h)

**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 classified as hazardous in accordance to OSHA Standard 29 CFR 1910.1200 (HCS 2012)

**Hazard pictograms**



**Signal word**

DANGER

**Hazard statements**

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

**Precautionary statements**

P210 Keep away from flames and hot surfaces. 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.  
P501 Dispose of contents/container to in accordance with local/regional/national/international regulation.

**Environmental hazards**

Does not contain any PBT or vPvB substances.

**Other hazards**

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

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**SECTION 3: Composition / Information on ingredients**

**Product-type:**

**3.2 The product is a mixture.**

Range [%]	Substance
50 - <75	Butane CAS: 106-97-8
10 - <25	Ethanol CAS: 64-17-5
10 - <25	Propane CAS: 74-98-6
1 - <5	iso-Butane CAS: 75-28-5
1 - <5	Ethane CAS: 74-84-0

**Comment on component parts**

All chemical substances in this material are included on or exempted from listing on the TSCA 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.

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**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.

**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 vapors/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 with 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 (vapors are heavier than air).

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.

Vapors 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 (US)**

Substance
Butane
CAS: 106-97-8, EINECS/ELINCS: 203-448-7, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119474691-32-XXXX
Long-term exposure: 800 ppm, 1900 mg/m <sup>3</sup> , NIOSH
Ethanol
CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX
Long-term exposure: 1000 ppm, 1900 mg/m <sup>3</sup> , OSHA, NIOSH
Propane
CAS: 74-98-6, EINECS/ELINCS: 200-827-9, EU-INDEX: 601-003-00-5, Reg-No.: 01-2119486944-21-XXXX
Long-term exposure: 1000 ppm, 1800 mg/m <sup>3</sup> , OSHA
iso-Butane
CAS: 75-28-5, EINECS/ELINCS: 200-857-2, EU-INDEX: 601-004-00-0, Reg-No.: 01-2119485395-27-XXXX
Long-term exposure: 1000 ppm, ACGIH 2011

**DNEL**

Substance
Ethanol, CAS: 64-17-5
Industrial, inhalative (vapor), Long-term - systemic effects: 950 mg/m <sup>3</sup> .
Industrial, dermal, Long-term - systemic effects: 343 mg/kg bw/d.
general population, oral, Long-term - systemic effects: 87 mg/kg bw/day.
general population, inhalative (vapor), Long-term - systemic effects: 114 mg/m <sup>3</sup> .
general population, dermal, Long-term - systemic effects: 206 mg/kg bw/d.
general population, oral, Long-term - systemic effects: 87 mg/kg bw/d.

**PNEC**

Substance
Ethanol, CAS: 64-17-5
soil, 0,63 mg/kg.
sediment (freshwater), 3,6 mg/kg.
seawater, 0,79 mg/l.
freshwater, 0,96 mg/l.
oral (food), 0,38 g/kg.
sediment (seawater), 2,9 mg/kg.
sewage treatment plants (STP), 580 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)  Do not inhale gases/vapors/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>Form</b>	aerosol
<b>Color</b>	various
<b>Odor</b>	characteristic
<b>Odor 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 [°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>Vapor pressure/gas pressure [kPa]</b>	5,7 (20°C)
<b>Density [g/ml]</b>	No information available.
<b>Bulk density [kg/m³]</b>	not applicable
<b>Solubility in water</b>	insoluble
<b>Partition coefficient [n-octanol/water]</b>	No information available.
<b>Viscosity</b>	not applicable
<b>Relative vapor density determined in air</b>	not applicable
<b>Evaporation speed</b>	not applicable
<b>Melting point [°C]</b>	not applicable
<b>Autoignition temperature [°C]</b>	287
<b>Decomposition temperature [°C]</b>	not applicable

### 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 toxicity**

Product
inhalative, Based on the information available, the classification criteria have not been fulfilled.:
dermal, Based on the information available, the classification criteria have not been fulfilled.:
oral, Based on the information available, the classification criteria have not been fulfilled.:
Substance
Butane, CAS: 106-97-8
LC50, inhalative, Rat: 658 mg/L (IUCLID).
Propane, CAS: 74-98-6
LC50, inhalative, Rat: > 1443 mg/l (15 min) (Lit.).
Ethanol, CAS: 64-17-5
LD50, dermal, Rabbit: > 2000 mg/kg (OECD 402).
LD50, oral, Rat: 10470 mg/kg (OECD 401).
LC50, inhalative, Rat: 117-125 mg/l/4h (OECD 403).
NOAEL, Rat: > 3000 mg/kg/d (24 month OECD 451).

<b>Serious eye damage/irritation</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>Skin corrosion/irritation</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>Respiratory or skin sensitisation</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>Specific target organ toxicity — single exposure</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>Specific target organ toxicity — repeated exposure</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>Mutagenicity</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>Reproduction toxicity</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>Carcinogenicity</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>Aspiration hazard</b>	Based on the information available, the classification criteria have not been fulfilled.
<b>General remarks</b>	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 manufacturers of raw materials. 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), Oncorhynchus mykiss: 13000 mg/l (OECD 203).
LC50, (48h), Daphnia magna: 12340 mg/l.
EC50, (72h), Algae: 275 mg/l (OECD 201).
EC50, (48h), Selenastrum capricornutum: 12900 mg/l (OECD 201).

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## 12.2 Persistence and degradability

<b>Behaviour in environment compartments</b>	No information available.
<b>Behaviour in sewage plant</b>	No information available.
<b>Biological degradability</b>	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 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

RCRA Hazard Class (40CFR 261): Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

**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.

**RCRA Hazard Class (40CFR 261)** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

## SECTION 14: Transport

### 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




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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 

**DOT Road Shipment Information (49 CFR)** UN/NA 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

**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

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**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

**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**

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

**US Regulations**

**National regulations**

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302

This product does not contain any ingredients regulated under this list.

- SARA, 311

This product does not contain any ingredients regulated under this list.

- SARA, 313

This product does not contain any ingredients regulated under this list.

- CA Proposition 65

No components require labeling under California Proposition 65.

- TSCA

All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

- FDA

not applicable

American Conference of Governmental Industrial Hygienists - ACGIH

A4: Not classifiable as a human carcinogen.

International Agency for Research on Cancer IARC

Ingredients not listed.

National Toxicology Program - NTP

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

HAP-VOC

91 %

Transport-regulations

ADR (2019); IMDG-Code (2019, 39. Amdt.); IATA-DGR (2019)

Other Right to Know Laws

**HMIS Ratings**

<b>HEALTH</b>	<b>1</b>	1 - Slight Hazard
<b>FLAMMABILITY</b>	<b>3</b>	3 - Severe Hazard
<b>PHYSICAL HAZARD</b>	<b>1</b>	1 - Slight Hazard
<b>PERSONAL PROTECTION</b>	<b>B</b>	B - Safety Glasses and Gloves

**NFPA Ratings**

<b>3</b>	TOP, FLAMMABILITY: 3 - Severe Hazard
<b>1 1</b>	LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 1 - Slight Hazard
<b>FLG</b>	BOTTOM, SPECIAL NOTICE: FLG - Flammable Gas

Modified position

none

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**SECTION 16: Other information**

**16.1 Hazard statements  
(SECTION 03)**

H319 Causes serious eye irritation.  
H225 Highly flammable liquid and vapor.  
H280 Contains gas under pressure; may explode if heated.  
H220 Extremely flammable gas.

**16.2 Abbreviations and acronyms**

ACGIH = American Conference of Governmental Industrial Hygienists;  
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;  
CAS = Chemical Abstracts Service;  
CERCLA = Comprehensive Environmental Response, Compensation and Liability Act;  
CFR = Code of Federal Regulations;  
CPR = Controlled Products Regulations;  
DMEL = Derived Minimum Effect Level;  
DNEL = Derived No Effect Level;  
DOT = Department of Transportation;  
EC50 = Median effective concentration;  
EPA = Environmental Protection Agency;  
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;  
IARC = International Agency of Research on Cancer;  
IATA = International Air Transport Association;  
TSCA = Toxic Substance Control Act;  
HMIS = Hazardous Materials Identification System;  
NFPA = National Fire Protection Association;  
NIOSH = National Institute for Occupational Safety and Health;  
OSHA = Occupational Safety and Health Administration;  
LC50 = Lethal concentration, 50%;  
LD50 = Median lethal dose, 50%;  
MARPOL = International Convention for the Prevention of Marine Pollution from Ships;  
PBT = Persistent, Bioaccumulative and Toxic substance;  
PNEC = Predicted No-Effect Concentration;  
REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals;  
SARA = Superfund Amendments and Reauthorization Act;  
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;

**16.3 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**

none

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