

## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 01.11.2020

Version number 3

Revision: 01.11.2020

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

#### - 1.1 Product identifier

- Trade name: ergo 9195 Aerosol

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

No further relevant information available.

- Application of the substance / the mixture CA-Cleaner

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

##### - Manufacturer/Supplier:

Kisling AG

Motorenstrasse 102

CH-8620 Wetzikon

Tel: +41- 58-272 0 272

- Further information obtainable from: ergo@kisling.com

- Department issuing MSDS: ergo@kisling.com

#### - 1.4 Emergency telephone number:

Tox Info Suisse: 145 / +41-44-2 51 51 51

+49-700-24 112 112 (KAR)

### SECTION 2: Hazards identification

#### - 2.1 Classification of the substance or mixture

##### - Classification according to Regulation (EC) No 1272/2008

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

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

#### - 2.2 Label elements

##### - Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

##### - Hazard pictograms



GHS02 GHS07

##### - Signal word Danger

##### - Hazard-determining components of labelling:

propan-2-ol

##### - Hazard statements

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

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

##### - 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.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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- Labelling of packages where the contents do not exceed 125 ml
- Hazard pictograms



GHS02 GHS07

- Signal word Danger
- Hazard-determining components of labelling:  
propan-2-ol
- Hazard statements  
H222-H229 Extremely flammable aerosol. 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
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

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### SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
- Description: Active substance with propellant

#### - Dangerous components:

CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336	> 50 - ≤ 100%
CAS: 124-38-9 EINECS: 204-696-9	carbon dioxide	> 1 - ≤ 5%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	> 1 - ≤ 5%

#### - Regulation (EC) No 648/2004 on detergents:

aliphatic hydrocarbons	<5%
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- Additional information: For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- 4.1 Description of first aid measures
- General information: Remove any clothing soiled by the product.
- After inhalation:  
Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.  
In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: After contact with skin, wash with plenty of water.
- After eye contact:  
In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

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- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If swallowed, do not induce vomiting: seek medical advice and show this container or label.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.  
In case of fire, the following can be released:  
Carbon monoxide and carbon dioxide  
Danger of forming toxic pyrolysis products.  
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Wear self-contained respiratory protective device.  
Do not inhale explosion gases or combustion gases.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.  
Avoid contact with the eyes and skin.
- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow product to reach sewage system or any water course.
- **6.3 Methods and material for containment and cleaning up:**  
Ensure adequate ventilation.  
Absorb liquid components with liquid-binding material.  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
Fumes can combine with air to form an explosive mixture.  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 10 for information on "stability and reactivity".  
See Section 13 for disposal information.

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### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

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**- Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.

Do not spray onto a naked flame or any incandescent material.

Buildup of explosive mixtures possible without sufficient ventilation.

**- 7.2 Conditions for safe storage, including any incompatibilities****- Storage:****- Requirements to be met by storerooms and receptacles:**

Observe official regulations on storing packagings with pressurised containers.

**- Information about storage in one common storage facility:** Not required.**- Further information about storage conditions:**

Protect from heat and direct sunlight.

Store under lock and key and out of the reach of children.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

**- Storage class (TRGS 510, Storage of hazardous substances in non-stationary containers): 2 B****- 7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****- Additional information about design of technical facilities:** No further data; see item 7.**- 8.1 Control parameters****- Ingredients with limit values that require monitoring at the workplace:****67-63-0 propan-2-ol**

MAK (Switzerland)	Short-term value: 1000 mg/m <sup>3</sup> , 400 ppm
	Long-term value: 500 mg/m <sup>3</sup> , 200 ppm
	B SSc;

**124-38-9 carbon dioxide**

MAK (Switzerland)	Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
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**106-97-8 butane, pure**

MAK (Switzerland)	Short-term value: 7600 mg/m <sup>3</sup> , 3200 ppm
	Long-term value: 1900 mg/m <sup>3</sup> , 800 ppm

**- DNELs****67-63-0 propan-2-ol**

Oral	Longterm System	26 mg/kg bw/day (General population)
Dermal	Longterm System	319 mg/kg bw/day (General population)
		888 mg/kg bw/day (Worker)
Inhalative	Longterm System	89 mg/m <sup>3</sup> (General population)
		500 mg/m <sup>3</sup> (Worker)

**- PNECs****67-63-0 propan-2-ol**

PNEC Freshwater	140.9 mg/l
PNEC Freshwater sed	552 mg/kg
PNEC Marinewater	140.9 mg/l
PNEC Soil	28 mg/kg
PNEC STP	2,251 mg/l
PNEC Marinewater sed	552 mg/kg

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**- Ingredients with biological limit values:****67-63-0 propan-2-ol**

BAT (Switzerland)	25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: Aceton
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	25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: Aceton
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**- Additional information:** The lists valid during the making were used as basis.

**- 8.2 Exposure controls****- Personal protective equipment:****- General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

**- Respiratory protection:**

Use suitable respiratory protective device in case of insufficient ventilation.

Filter AX

**- Protection of hands:**

Protective gloves (EN 374)

Check protective gloves prior to each use for their proper condition.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**- Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

**- Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**- Eye protection:** Safety glasses**SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:**

**Form:** Aerosol

**Colour:** Clear

**- Odour:** Alcohol-like

**- Odour threshold:** Not determined.

**- pH-value:** Not determined.

**- Change in condition**

**Melting point/freezing point:** Not applicable, as aerosol.

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<b>Initial boiling point and boiling range:</b> < 0 °C	
- <b>Flash point:</b>	Not applicable, as aerosol.
- <b>Flammability (solid, gas):</b>	Not applicable.
- <b>Decomposition temperature:</b>	Not determined.
- <b>Auto-ignition temperature:</b>	Product is not self-igniting.
- <b>Explosive properties:</b>	Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Buildup of explosive mixtures possible without sufficient ventilation.
- <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
- <b>Oxidising properties</b>	Not determined.
- <b>Vapour pressure:</b>	Not determined.
- <b>Density at 20 °C:</b>	0.74 g/cm <sup>3</sup>
- <b>Relative density</b>	Not determined.
- <b>Vapour density</b>	Not determined.
- <b>Evaporation rate</b>	Not applicable.
- <b>Solubility in / Miscibility with water:</b>	Fully miscible.
- <b>Partition coefficient: n-octanol/water:</b>	Not determined.
- <b>Viscosity:</b>	
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
- <b>9.2 Other information</b>	No further relevant information available.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions**  
Danger of bursting.  
Forms explosive gas mixture with air.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:**  
No dangerous products of decomposition if used and stored according to specifications.

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

**- LD/LC50 values relevant for classification:****67-63-0 propan-2-ol**

Oral	LD50	4,570 mg/kg (Rat, male/female)
Dermal	LD50	13,400 mg/kg (Rabbit)

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Inhalative	LC50/4 h	30 mg/l (Rat, male/female)
<b>106-97-8 butane, pure</b>		
Inhalative	LC50/4 h	658 mg/l (Rat, male/female)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Additional toxicological information:**  
No experimentally found toxicological data are available for this preparation.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure**  
May cause drowsiness or dizziness.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

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**SECTION 12: Ecological information**

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class (German Regulation) is valid for the active agent.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

**SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations.

<b>- European waste catalogue</b>	
16 00 00	WASTES NOT OTHERWISE SPECIFIED IN THE LIST
16 05 00	gases in pressure containers and discarded chemicals
16 05 04*	gases in pressure containers (including halons) containing hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**SECTION 14: Transport information**

- **14.1 UN-Number**
- **ADR, IMDG, IATA** UN1950

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**- 14.2 UN proper shipping name**

- ADR	1950 AEROSOLS
- IMDG	AEROSOLS
- IATA	AEROSOLS, flammable

**- 14.3 Transport hazard class(es)****- ADR**

- Class	2 5F Gases.
- Label	2.1

**- IMDG**

- Class	2 Gases.
- Label	2.1

**- IATA**

- Class	2.1
- Label	2.1

**- 14.4 Packing group**

- ADR, IMDG, IATA	Void
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<b>- 14.5 Environmental hazards:</b>	Not applicable.
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**- 14.6 Special precautions for user****- EMS Number:****- Stowage Code****- Segregation Code**

Warning: Gases.  
F-D,S-U  
SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
SG69 For AEROSOLS with a maximum capacity of 1 litre:  
Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.  
For AEROSOLS with a capacity above 1 litre:  
Segregation as for the appropriate subdivision of class 2.  
For WASTE AEROSOLS:  
Segregation as for the appropriate subdivision of class 2.

**- 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable.

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**- Transport/Additional information:****- ADR****- Limited quantities (LQ)**

1L

**- Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

**- Transport category**

2

**- Tunnel restriction code**

D

**- IMDG****- Limited quantities (LQ)**

1L

**- Excepted quantities (EQ)**

Code: E0

Not permitted as Excepted Quantity

**- UN "Model Regulation":**

UN 1950 AEROSOLS, 2.1

**SECTION 15: Regulatory information****- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****- REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3**- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

**- National regulations:****- Waterhazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.**- 15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**- Relevant phrases**

H220 Extremely flammable gas.

H225 Highly flammable liquid and vapour.

H280 Contains gas under pressure; may explode if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**- Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Gas 1A: Flammable gases – Category 1A

Aerosol 1: Aerosols – Category 1

Press. Gas (Comp.): Gases under pressure – Compressed gas

Flam. Liq. 2: Flammable liquids – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

**- \* Data compared to the previous version altered.**