

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

Printing date 30.03.2020

Version number 2

Revision: 30.03.2020

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

#### - 1.1 Product identifier

- Trade name: **ergo 5150 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 Primer

#### - 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

##### - Only representative (REACH) and importer (CLP):

Kisling Deutschland GmbH  
Bürgermeister-Seidl-Strasse 2  
D-82515 Wolfratshausen  
Tel +49 8171 99982 30  
Fax +49 322 224 299 35

- Further information obtainable from: ergo@kisling.com

- Department issuing MSDS: ergo@kisling.com

- 1.4 Emergency telephone number: +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.
Skin Irrit. 2	H315	Causes skin irritation.
STOT SE 3	H336	May cause drowsiness or dizziness.
Asp. Tox. 1	H304	May be fatal if swallowed and enters airways.
Aquatic Acute 1	H400	Very toxic to aquatic life.
Aquatic Chronic 1	H410	Very toxic to aquatic life with long lasting effects.

#### - 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 GHS08 GHS09

- Signal word Danger

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

heptane

##### - Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.  
H315 Causes skin irritation.  
H336 May cause drowsiness or dizziness.  
H304 May be fatal if swallowed and enters airways.

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H410 Very toxic to aquatic life with long lasting effects.

**- Precautionary statements**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P251 Do not pierce or burn, even after use.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

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

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

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

GHS02 GHS07 GHS08 GHS09

**- Signal word** Danger**- Hazard-determining components of labelling:**

heptane

**- Hazard statements**

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

H304 May be fatal if swallowed and enters airways.

**- 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.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P331 Do NOT induce vomiting.

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.**SECTION 3: Composition/information on ingredients****- 3.2 Mixtures****- Description:** Active substance with propellant**- Dangerous components:**

CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane Flam. Liq. 2, H225; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	> 30 - ≤ 50%
CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane, pure Flam. Gas 1A, H220; Press. Gas (Comp.), H280	> 30 - ≤ 50%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	> 5 - ≤ 15%

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CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	isobutane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	> 5 - ≤ 15%
CAS: 111-84-2 EINECS: 203-913-4	nonane Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; STOT SE 3, H336	≥ 0.025 - < 0.25%

- **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:** Immediately 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 immediately with plenty of soap and water.

If skin irritation continues, consult a doctor.

#### - After eye contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

#### - After swallowing:

Rinse out mouth and then drink plenty of water.

If swallowed, do not induce vomiting; seek medical advice immediately 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:

Nitrogen oxides (NO<sub>x</sub>)

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.

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### 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.

\*

### 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).

#### - 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:

##### 142-82-5 heptane

IOELV (European Union)	Long-term value: 2085 mg/m <sup>3</sup> , 500 ppm
MAK (Germany)	Long-term value: 2100 mg/m <sup>3</sup> , 500 ppm vgl. Abschn. XII

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<b>106-97-8 butane, pure</b>		
AGW (Germany)	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm 4(II);DFG	
<b>74-98-6 propane</b>		
AGW (Germany)	Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm 4(II);DFG	
<b>75-28-5 isobutane</b>		
AGW (Germany)	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm 4(II);DFG	
<b>- DNELs</b>		
<b>142-82-5 heptane</b>		
Oral	Longterm System	149 mg/kg bw/day (General population)
Dermal	Longterm System	149 mg/kg bw/day (General population) 300 mg/kg bw/day (Worker)
Inhalative	Longterm System	447 mg/m <sup>3</sup> (General population) 2,085 mg/m <sup>3</sup> (Worker)

- **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.

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

- **Material of gloves**

Find below a list of appropriate protective gloves for chemical surrounding:

Permeation time / penetration time: = 480 minutes (DIN EN 374):

Chloropren Nitril I, Nr. 0727

Nitril I, Nr. 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890

Permeation time / penetration time: = 240 minutes (DIN EN 374):

Chloropren Nitril II, Nr. 0717

Permeation time / penetration time: = 120 minutes (DIN EN 374):

Nitril VI, Nr. 0754

of KCL company (e-mail: vertrieb@kcl.de).

The recommendation is based exclusively on the chemical compatibility and the test according to EN374 under laboratory conditions.

Requirements can vary according to the use. Therefore, please always take into account the glove supplier's recommendations.

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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.

Permeation time / penetration time: see above (material of gloves)

**- Eye protection:** Avoid contact with the eyes.

### SECTION 9: Physical and chemical properties

**- 9.1 Information on basic physical and chemical properties**
**- General Information**
**- Appearance:**

**Form:** Aerosol  
**Colour:** Transparent

**- Odour:** Characteristic

**- Odour threshold:** Not determined.

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

**- Change in condition**

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

**Initial boiling point and boiling range:** < 0 °C

**- Flash point:** Not applicable, as aerosol.

**- Flammability (solid, gas):** Not applicable.

**- Decomposition temperature:** Not determined.

**- Auto-ignition temperature:** Product is not self-igniting.

**- Explosive properties:**

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.

**- Explosion limits:**

**Lower:** Not determined.

**Upper:** Not determined.

**- Oxidising properties:** Not determined.

**- Vapour pressure:** Not determined.

**- Density at 20 °C:** 0.7 g/cm<sup>3</sup>

**- Relative density:** Not determined.

**- Vapour density:** Not determined.

**- Evaporation rate:** Not applicable.

**- Solubility in / Miscibility with water:**

Not miscible or difficult to mix.

**- Partition coefficient: n-octanol/water:** Not determined.

**- Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

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**- 9.2 Other information**

The information applies to the active substance.

**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.
- |  |          |                             |
|--|----------|-----------------------------|
| <b>- LD/LC50 values relevant for classification:</b> |          |                             |
| <b>106-97-8 butane, pure</b>                         |          |                             |
| Inhalative   | LC50/4 h | 658 mg/l (Rat, male/female) |
- **Primary irritant effect:**
  - **Skin corrosion/irritation**  
 Causes skin irritation.
  - **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
  - **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.  
 May cause drowsiness or dizziness.
  - **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**  
 May be fatal if swallowed and enters airways.

**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.
- **Ecotoxicological effects:**
- **Remark:** Very toxic for fish
- **Additional ecological information:**
- **General notes:**  
 Water hazard class (German Regulation) is valid for the active agent.  
 Also very poisonous for fish and plankton in water bodies.  
 Very toxic for aquatic organisms

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Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water  
 Danger to drinking water if even small quantities leak into the ground.  
 Do not allow product to reach ground water, water course or undiluted 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.**- European waste catalogue**

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

**- 14.2 UN proper shipping name****- ADR**1950 AEROSOLS, ENVIRONMENTALLY  
HAZARDOUS**- IMDG**

AEROSOLS, MARINE POLLUTANT

**- 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

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- Label	2.1
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:  - Marine pollutant: - Special marking (ADR):	Product contains environmentally hazardous substances: heptane Symbol (fish and tree) Symbol (fish and tree)
- 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.
- Transport/Additional information:	
- ADR - Limited quantities (LQ) - Excepted quantities (EQ)  - Transport category - Tunnel restriction code	1L Code: E0 Not permitted as Excepted Quantity 2 D
- IMDG - Limited quantities (LQ) - Excepted quantities (EQ)	1L Code: E0 Not permitted as Excepted Quantity
- UN "Model Regulation":	UN 1950 AEROSOLS, 2.1, ENVIRONMENTALLY HAZARDOUS

#### 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
- National regulations:
- Waterhazard class: Water hazard class 2 (Self-assessment): 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.

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**- Relevant phrases**

- H220 Extremely flammable gas.
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H280 Contains gas under pressure; may explode if heated.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H336 May cause drowsiness or dizziness.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.

**- 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)
- 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
- Flam. Liq. 3: Flammable liquids – Category 3
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- Asp. Tox. 1: Aspiration hazard – Category 1
- Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
- Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

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