

## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 11.05.2010

Revision: 11.05.2010

### 1 Identification of the substance/preparation and of the company/undertaking

**- Product details**

**- Trade name: ergo 5100 Aerosol**

**- Application of the substance / the preparation** Activator

**- Manufacturer/Supplier:**

Kisling AG

Motorenstrasse 102

CH-8620 Wetzikon

Telefon: +41-(0) 58-272 0 272

Telefax: +41-(0) 58-272 0 273

**- Further information obtainable from:** Safety Department

**- Department issuing MSDS:** ergo@kisling.com

**- Information in case of emergency:** Swiss Toxicological Information Centre: +41-(0) 44-2 51 51 51

### 2 Hazards identification

**- Hazard description:**



Xi Irritant

F+ Extremely flammable

N Dangerous for the environment

**- Information concerning to particular hazards to man and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurized container.

Has a narcotizing effect.

R 12 Extremely flammable.

R 38 Irritating to skin.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 67 Vapours may cause drowsiness and dizziness.

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.

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

**- Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

### 3 Composition/information on ingredients

**- Chemical characterization**

**- Description:** Active substance with propellant

**- Dangerous components:**

CAS: 106-97-8 EINECS: 203-448-7 Index number: 601-004-00-0	butane	F+; R 12	≥30%
CAS: 142-82-5 EINECS: 205-563-8 Index number: 601-008-00-2	heptane	Xn, Xi, F, N; R 11-38-50/53-65-67	15-30%

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CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	propane	F+; R 12	5-15%
CAS: 99-97-8 EINECS: 202-805-4 Index number: 612-056-00-9	N,N-dimethyl-p-toluidine	T; R 23/24/25-33-52/53	<5%

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

### 4 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 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.

### 5 Fire-fighting measures

- **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
- **Special hazards caused by the substance, its products of combustion or resulting gases:**  
Can form explosive gas-air mixtures.  
Formation of toxic gases is possible during heating or in case of fire.
- **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.

### 6 Accidental release measures

- **Person-related safety precautions:**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation  
Keep away from ignition sources.  
Avoid contact with the eyes and skin.
- **Measures for environmental protection:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.
- **Measures for cleaning/collecting:**  
Ensure adequate ventilation.  
Absorb liquid components with liquid-binding material.  
Dispose of the material collected according to regulations.
- **Additional information:**  
Fumes can combine with air to form an explosive mixture.

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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.

### 7 Handling and storage

**- Handling:**

**- Information 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.  
 Pressurized 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.

**- Storage:**

**- Requirements to be met by storerooms and receptacles:**

Store in a cool location.  
 Observe official regulations on storing packagings with pressurized containers.

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

**- Further information about storage conditions:**

Protect from heat and direct sunlight.  
 Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.  
 Store under lock and key and out of the reach of children.

### 8 Exposure controls/personal protection

**- Additional information about design of technical facilities:** No further data; see item 7.

**- Ingredients with limit values that require monitoring at the workplace:**

<b>106-97-8 butane</b>	
MAK (Switzerland)	1900 mg/m <sup>3</sup> , 800 ppm
<b>142-82-5 heptane</b>	
MAK (Switzerland)	Short-term value: 1600 mg/m <sup>3</sup> , 400 ppm Long-term value: 1600 mg/m <sup>3</sup> , 400 ppm
<b>74-98-6 propane</b>	
MAK (Switzerland)	Short-term value: 7200 mg/m <sup>3</sup> , 4000 ppm Long-term value: 1800 mg/m <sup>3</sup> , 1000 ppm

**- Additional information:** The lists valid during the making were used as basis.

**- 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.  
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**- Protection of hands:**

Protective gloves (EN 374)

Solvent resistant gloves

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**

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:** Avoid contact with the eyes.

### 9 Physical and chemical properties

**- General Information**

<b>Form:</b>	Aerosol
<b>Colour:</b>	Yellowish
<b>Odour:</b>	Petrol-like

**- Change in condition**
**Melting point/Melting range:** Not applicable, as aerosol.

**Boiling point/Boiling range:** Not applicable, as aerosol.

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

**- Self-igniting:** Product is not self-igniting.

**- Danger of explosion:** 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.

**- Density at 20°C:** 0,7 g/cm<sup>3</sup>
**- Solubility in / Miscibility with water:** Not miscible or difficult to mix.

### 10 Stability and reactivity

**- Thermal decomposition / conditions to be avoided:** Protect from heat and direct sunlight.

**- Materials to be avoided:**
**- Dangerous reactions**

Danger of bursting.

Forms explosive gas mixture with air.

**- Dangerous decomposition products:**

No dangerous products of decomposition if used and stored according to specifications.

### 11 Toxicological information

**- Acute toxicity:**
**- Primary irritant effect:**
**- on the skin:** Irritant to skin and mucous membranes.

**- on the eye:** Slight irritant effect possible.

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- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

Vapours have narcotic effect.

No experimentally found toxicological data are available for this preparation.

### 12 Ecological information

- **Ecotoxicological effects:**

- **Remark:** Very toxic for fish

- **Additional ecological information:**

- **General notes:**

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.

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

### 13 Disposal considerations

- **Product:**

- **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 dangerous substances

- **Uncleaned packaging:**

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

### 14 Transport information

- **Land transport ADR/RID (cross-border)**



- **ADR/RID class:** 2 5F Gases.

- **UN-Number:** 1950

- **Packaging group:** -

- **Hazard label** 2.1

- **Special marking:** Symbol (fish and tree)

- **Description of goods:** 1950 AEROSOLS

- **Limited quantities (LQ)** LQ2

- **Transport category** 2

- **Tunnel restriction code** D

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**- Maritime transport IMDG:**

- **IMDG Class:** 2
- **UN Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** Yes  
Symbol (fish and tree)
- **Proper shipping name:** AEROSOLS

**- Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label** 2.1
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

- **Environmental hazards:** Product contains environmentally hazardous substances: heptane

**15 Regulatory information****- Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

**- Code letter and hazard designation of product:**

Xi Irritant  
F+ Extremely flammable  
N Dangerous for the environment

**- Risk phrases:**

- 12 Extremely flammable.
- 38 Irritating to skin.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 67 Vapours may cause drowsiness and dizziness.

**- Safety phrases:**

- 23 Do not breathe vapour/spray.
- 33 Take precautionary measures against static discharges.
- 51 Use only in well-ventilated areas.
- 60 This material and its container must be disposed of as hazardous waste.

**- Special labelling of certain preparations:**

Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use.  
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Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Keep out of the reach of children.

**- National regulations:****- Waterhazard class:**

Water hazard class 2 (Self-assessment): hazardous for water.

Water hazard class (German Regulation) is valid for the active agent.

**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 R-phrases**

- 11 Highly flammable.
- 12 Extremely flammable.
- 23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
- 33 Danger of cumulative effects.
- 38 Irritating to skin.
- 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- 65 Harmful: may cause lung damage if swallowed.
- 67 Vapours may cause drowsiness and dizziness.

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