

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

Printing date 02.03.2014

Revision: 02.03.2014

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****- 1.1 Product identifier****- Trade name: ergo 5889****- 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** Adhesives**- 1.3 Details of the supplier of the safety data sheet****- 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**- 1.4 Emergency telephone number:** Swiss Toxicological Information Centre: +41-(0) 44-2 51 51 51**SECTION 2: Hazards identification****- 2.1 Classification of the substance or mixture****- Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

**- Information concerning particular hazards for human 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.

**- Classification system:**

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

**- 2.2 Label elements****- 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

**- Risk phrases:**

36/37/38 Irritating to eyes, respiratory system and skin.

**- Safety phrases:**

23 Do not breathe vapour.

24/25 Avoid contact with skin and eyes.

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

37 Wear suitable gloves.

60 This material and its container must be disposed of as hazardous waste.

**- Special labelling of certain preparations:**

Cyanoacrylate. Danger. Bonds skin and eyes in seconds. Keep out of the reach of children.

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- **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:** Adhesive

#### - Dangerous components:

CAS: 7085-85-0	ethyl 2-cyanoacrylate	25-<100%
EINECS: 230-391-5	Xi R36/37/38	
Index number: 607-236-00-9	Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

- **Additional information:** For the wording of the listed risk 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**  
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.

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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

Ensure adequate ventilation  
Avoid contact with the eyes and skin.

#### - 6.2 Environmental precautions:

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.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).  
Ensure adequate ventilation.  
Dispose of the material collected according to regulations.

#### - 6.4 Reference to other sections

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.

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

##### - Storage:

- **Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

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

##### - Further information about storage conditions:

Store in cool, dry conditions in well sealed receptacles.  
Store under lock and key and out of the reach of children.  
Protect from heat and direct sunlight.

- **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:

**7085-85-0 ethyl 2-cyanoacrylate**

MAK (Switzerland) | 9 mg/m<sup>3</sup>, 2 ppm

##### - DNELs

**7085-85-0 ethyl 2-cyanoacrylate**

Inhalative	Langzeit, Lokale Effekte	9,25 mg/m <sup>3</sup> (all)
		9,25 mg/m <sup>3</sup> (ber)
	Langzeit, Systemische Effekte	9,25 mg/m <sup>3</sup> (all)
		9,25 mg/m <sup>3</sup> (ber)

##### - Additional information:

The lists valid during the making were used as basis.

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Ensure good ventilation/exhaustion at the workplace.  
Relative humidity should be at least 50-60%.

**- 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 B

**- 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: = 60 minutes(DIN EN 374):

Butyl, Nr. 0898

Permeation time / penetration time: = 30 minutes(DIN EN 374):

Chloropren Nitril II, Nr. 0717

Nitril I, Nr. 0728, 0730, 0732, 0733, 0736, 0737, 0738, 0739 oder 0836

Viton, Nr. 0890

Butyl II, Nr. 0897

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.

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**

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

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

**- Not suitable are gloves made of the following materials: Cotton gloves****- Eye protection: Safety glasses****SECTION 9: Physical and chemical properties****- 9.1 Information on basic physical and chemical properties****- General Information****- Appearance:**

**Form:** Fluid

**Colour:** Colourless

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- <b>Odour:</b>	Irritant
- <b>Odour threshold:</b>	Not determined.
- <b>pH-value:</b>	Not determined.
- <b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Undetermined.
<b>Boiling point/Boiling range:</b>	Undetermined.
- <b>Flash point:</b>	> 80 °C
- <b>Flammability (solid, gaseous):</b>	Not applicable.
- <b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
- <b>Self-igniting:</b>	Product is not self-igniting.
- <b>Danger of explosion:</b>	Product does not present an explosion hazard.
- <b>Explosion limits:</b>	
<b>Lower:</b>	Not determined.
<b>Upper:</b>	Not determined.
- <b>Vapour pressure:</b>	Not determined.
- <b>Density:</b>	1,04 g/cm <sup>3</sup> (DIN 51757))
- <b>Relative density</b>	Not determined.
- <b>Vapour density</b>	Not determined.
- <b>Evaporation rate</b>	Not determined.
- <b>Solubility in / Miscibility with water:</b>	Hydrolized.
- <b>Partition coefficient (n-octanol/water):</b>	Not determined.
- <b>Viscosity:</b>	
<b>Dynamic at 25 °C:</b>	320 - 420 mPas
<b>Kinematic:</b>	Not determined.
- <b>9.2 Other information</b>	No further relevant information available.

\* **SECTION 10: Stability and reactivity**

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** Protect from heat and direct sunlight.
- **10.3 Possibility of hazardous reactions**  
Exothermic polymerization.  
Reacts with alcohols, amines, aqueous acids and alkalis.
- **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.

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### SECTION 11: Toxicological information

#### - 11.1 Information on toxicological effects

##### - Acute toxicity:

##### - LD/LC50 values relevant for classification:

##### 7085-85-0 ethyl 2-cyanoacrylate

Oral	LD50	>5000 mg/kg (rat) (OECD 401)
Dermal	LD50	>2000 mg/kg (rab) (OECD 402)

##### - Primary irritant effect:

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **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

No experimentally found toxicological data are available for this preparation.

### 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 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.

##### - European waste catalogue

08 00 00	WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS
08 04 00	wastes from MFSU of adhesives and sealants (including waterproofing products)
08 04 09*	waste adhesives and sealants containing organic solvents or other dangerous substances

##### - Uncleaned packaging:

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

- **European waste catalogue**

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15 00 00: WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED

15 01 00: packaging (including separately collected municipal packaging waste)

15 01 10: packaging containing residues of or contaminated by dangerous substances

### SECTION 14: Transport information

- 14.1 UN-Number

- ADR, IMDG

Void

- IATA

UN3334

- 14.2 UN proper shipping name

- ADR, IMDG

Void

- IATA

AVIATION REGULATED LIQUID, N.O.S.  
(Cyanoacrylate ester)

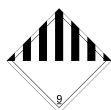
- 14.3 Transport hazard class(es)

- ADR, ADN, IMDG

- Class

Void

- IATA



- Class

9 Miscellaneous dangerous substances and articles.

- Label

9

- 14.4 Packing group

- ADR, IMDG, IATA

Void

- 14.5 Environmental hazards:

Not applicable.

- 14.6 Special precautions for user

Not applicable.

- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

### SECTION 15: Regulatory information

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

- 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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H335 May cause respiratory irritation.

R36/37/38 Irritating to eyes, respiratory system and skin.

- \* Data compared to the previous version altered.