

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.05.2015

Version number 1

Revision: 26.05.2015

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

- 1.1 Product identifier

- Trade name: **ergo 7900**

- 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 Sealant

- 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 Regulation (EC) No 1272/2008

Flam. Liq. 2 H225 Highly flammable liquid and vapour.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36: Irritating to eyes.

F; Highly flammable

R11: Highly flammable.

R66-67: Repeated exposure may cause skin dryness or cracking. Vapours may cause drowsiness and dizziness.

- 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.

At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent.

Has a narcotising effect.

- 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 Regulation (EC) No 1272/2008

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

- Hazard pictograms



GHS02 GHS07

- Signal word Danger

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- Hazard-determining components of labelling:

n-butyl acetate

- Hazard statements

H225 Highly flammable liquid and vapour.

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.

P241 Use explosion-proof electrical/ventilating/lighting/equipment.

P261 Avoid breathing vapours.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Additional information:

EUH066 Repeated exposure may cause skin dryness or cracking.

- 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:** Mixture of substances listed below with nonhazardous additions.**- Dangerous components:**

| | | |
|--|---|---------|
| CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-xxxx | n-butyl acetate R10-66-67 ----- Flam. Liq. 3, H226; STOT SE 3, H336 | 20-<25% |
| CAS: 78-93-3 EINECS: 201-159-0 Index number: 606-002-00-3 Reg.nr.: 01-2119457290-43-xxxx | butanone Xi R36; F R11 R66-67 ----- Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | 15-<20% |
| CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-xxxx | propan-2-ol Xi R36; F R11 R67 ----- Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336 | 15-<20% |

- 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:** 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:**
CO₂, 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.
- **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:**
Prevent seepage into sewage system, workpits and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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**
Keep receptacles tightly sealed.
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.

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- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Store in a cool location.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:**
 - Protect from frost.
 - Keep receptacle tightly sealed.
 - Store receptacle in a well ventilated area.
- **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:

123-86-4 n-butyl acetate

| | |
|-------------------|---|
| MAK (Switzerland) | Short-term value: 960 mg/m ³ , 200 ppm Long-term value: 480 mg/m ³ , 100 ppm SSc; |
|-------------------|---|

78-93-3 butanone

| | |
|-------------------|---|
| MAK (Switzerland) | Short-term value: 590 mg/m ³ , 200 ppm Long-term value: 590 mg/m ³ , 200 ppm H B SSc; |
|-------------------|---|

67-63-0 propan-2-ol

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

- DNELs

123-86-4 n-butyl acetate

| | | |
|------------|-------------------------------|---|
| Inhalative | Akut, Lokale Effekte | 859,7 mg/m ³ (all) 960 mg/m ³ (ber) |
| | Akut, Systemische Effekte | 859,7 mg/m ³ (all) 960 mg/m ³ (ber) |
| | Langzeit, Lokale Effekte | 102,34 mg/m ³ (all) 480 mg/m ³ (ber) |
| | Langzeit, Systemische Effekte | 102,34 mg/m ³ (all) 480 mg/m ³ (ber) |

- PNECs

123-86-4 n-butyl acetate

| | |
|-------------------------|---------------------------|
| PNEC Boden | 0,0903 mg/kg Boden (-) |
| PNEC Kläranlage | 35,6 mg/l (-) |
| PNEC Meerwasser | 0,018 mg/l (-) |
| PNEC Meerwassersediment | 0,0981 mg/kg Sediment (-) |
| PNEC Süßwasser | 0,18 mg/l (-) |
| PNEC Süßwassersediment | 0,981 mg/kg Sediment (-) |

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- Ingredients with biological limit values:**78-93-3 butanone**

| | |
|-------------------|---|
| BAT (Switzerland) | 5 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: 2-Butanon (MEK) |
|-------------------|---|

67-63-0 propan-2-ol

| | |
|-------------------|---|
| BAT (Switzerland) | 25 mg/l Untersuchungsmaterial: Urin Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: Aceton |
| | 25 mg/l Untersuchungsmaterial: Vollblut Probennahmezeitpunkt: Expositionsende bzw. Schichtende Biol. Parameter: Aceton |

- 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.

Avoid contact with the eyes and skin.

- Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.
filter A (EN 141)

- 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: | Viscous |
| Colour: | Red-brown |
| - Odour: | Characteristic |

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| | |
|---|---|
| - Odour threshold: | Not determined. |
| - pH-value: | Not determined. |
| - Change in condition | |
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | >35 °C |
| - Flash point: | <21 °C |
| - Flammability (solid, gaseous): | Not applicable. |
| - Ignition temperature: | |
| Decomposition temperature: | Not determined. |
| - Self-igniting: | Product is not self-igniting. |
| - Danger of explosion: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| - Explosion limits: | |
| Lower: | Not determined. |
| Upper: | Not determined. |
| - Vapour pressure: | Not determined. |
| - Density at 20 °C: | 1 g/cm ³ |
| - Relative density | Not determined. |
| - Vapour density | Not determined. |
| - Evaporation rate | Not determined. |
| - Solubility in / Miscibility with water: | Partly miscible. |
| - Partition coefficient (n-octanol/water): | Not determined. |
| - Viscosity: | |
| Dynamic: | Not determined. |
| Kinematic at 20 °C: | >40 s (ISO 4 mm) |
| - 9.2 Other information | No further relevant information available. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**
Forms explosive gas mixture with air.
Strong exothermic reaction with acids.
- **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:

123-86-4 n-butyl acetate

| | | |
|--------------------|--|---|
| Oral | LD50 | 10,760 - 13,100 mg/kg (rat) (OECD 423 / IUCLID) |
| Dermal | LD50 | > 14,100 mg/kg (rab) (OECD 402 / IUCLID) |
| Inhalative | LC50/4 h | 23,4 mg/l (rat) (OECD 403) |
| Irritation of skin | Hautreizung | - (rab) (OECD 404) |
| Irritation of eyes | Augenreizung | - (rab) (OECD 405) |
| Sensitisation | Sensibilisierung | - (gen) (OECD 406) |
| | Sensibilisierung (Maximierungstest) | - (gen) |
| | Sensibilisierung [Mausohrschwellungstest (MEST)] | - (mou) |
| | Ames-Test | - (-) (Ames-Test) |

67-63-0 propan-2-ol

| | | |
|------------|----------|-------------------|
| Oral | LD50 | 4570 mg/kg (rat) |
| Dermal | LD50 | 13400 mg/kg (rab) |
| Inhalative | LC50/4 h | 30 mg/l (rat) |

- Primary irritant effect:

- **Skin corrosion/irritation** Repeated exposure may cause skin dryness or cracking.

- **Serious eye damage/irritation** Irritating effect.

- **Respiratory or skin sensitisation** No sensitising 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.

SECTION 12: Ecological information

- 12.1 Toxicity

- Aquatic toxicity:

123-86-4 n-butyl acetate

| | |
|-----------|--|
| EC50/48 h | 44 mg/l (DA) |
| EC50/72 h | 647,7 mg/l (Desmodesmus subspicatus) |
| IC50/40 h | 356 mg/l (Tetrahymena) |
| LC50/96 h | 18 mg/l (Pimephales promelas) (OECD 203) |
| NOEC | 200 mg/l (Desmodesmus subspicatus) |

- **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 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.

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

SECTION 14: Transport information

- | | |
|---|-----------------------------|
| - 14.1 UN-Number | |
| - ADR, IMDG, IATA | UN1866 |
| - 14.2 UN proper shipping name | |
| - ADR | 1866 RESIN SOLUTION |
| - IMDG, IATA | RESIN SOLUTION |
| - 14.3 Transport hazard class(es) | |
| - ADR | |
|  | |
| - Class | 3 (F1) Flammable liquids. |
| - Label | 3 |
| ----- | |
| - IMDG, IATA | |
|  | |
| - Class | 3 Flammable liquids. |
| - Label | 3 |
| - 14.4 Packing group | |
| - ADR, IMDG, IATA | II |
| - 14.5 Environmental hazards: | Not applicable. |
| - 14.6 Special precautions for user | Warning: Flammable liquids. |
| - Danger code (Kemler): | 30 |
| - EMS Number: | F-E, <u>S</u> -E |
| - 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| ----- | |
| - Transport/Additional information: | |
| - ADR | |
| - Limited quantities (LQ) | 5L |
| - Transport category | 2 |
| - Tunnel restriction code | D/E |

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| | |
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| - UN "Model Regulation": | UN1866, RESIN SOLUTION, 3, II |
|--------------------------|-------------------------------|

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 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.

- **Relevant phrases**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

R10 Flammable.

R11 Highly flammable.

R36 Irritating to eyes.

R66 Repeated exposure may cause skin dryness or cracking.

R67 Vapours may cause drowsiness and 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

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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