



**SÜDWEST Entlacker****2.2 Label elements****Labelling (REGULATION (EC) No 1272/2008)**

Hazard pictograms



Signal word : Warning

Hazard statements : H302 Harmful if swallowed.  
 H315 Causes skin irritation.  
 H319 Causes serious eye irritation.

Precautionary statements : P102 Keep out of reach of children.

**Prevention:**

P280 Wear protective gloves/ eye protection/ face protection.

**Response:**

P301 + P312 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

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

**Disposal:**

P501 Contents/container to be disposed of through approved disposal contractor or taken to municipal collection point.

**Hazardous components which must be listed on the label:**

1-butylpyrrolidin-2-one

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.2 Mixtures****Components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
1-butylpyrrolidin-2-one	3470-98-2 222-437-8 01-2120062728-48-XXXX	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319	≥ 20 - < 25
formic acid	64-18-6 200-579-1 607-001-00-0 01-2119491174-37-XXXX	Flam. Liq. 3; H226 Eye Dam. 1; H318 Skin Corr. 1A; H314 Acute Tox. 3; H331 Acute Tox. 4; H302 Met. Corr. 1; H290 EUH071	≥ 1 - < 2

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		specific concentration limit Skin Corr. 1A; H314 ≥ 90 % Skin Corr. 1B; H314 10 - < 90 % Skin Irrit. 2; H315 2 - < 10 % Eye Irrit. 2; H319 2 - < 10 % Flam. Liq. 3 ≥ 85 % Eye Dam. 1 ≥ 10 %	
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For explanation of abbreviations see section 16.

**SECTION 4: FIRST AID MEASURES****4.1 Description of first aid measures**

General advice	When symptoms persist or in all cases of doubt seek medical advice. Never give anything by mouth to an unconscious person.
Inhalation	If unconscious, place in recovery position and seek medical advice. Move to fresh air in case of accidental inhalation of vapours or decomposition products. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. If symptoms persist, call a physician.
Skin contact	Take off contaminated clothing and shoes immediately. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Eye contact	If skin irritation persists, call a physician. In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
Ingestion	Rinse mouth with water. If swallowed, seek medical advice immediately and show this container or label. Keep at rest. Do NOT induce vomiting.

**4.2 Most important symptoms and effects, both acute and delayed**

Symptoms No information available.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment Treat symptomatically.  
No information available.

**SECTION 5: FIREFIGHTING MEASURES****5.1 Extinguishing media**

Suitable extinguishing media CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media High volume water jet

**5.2 Special hazards arising** Fire may cause evolution of:

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Carbon monoxide  
Carbon dioxide (CO<sub>2</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Exposure to decomposition products may be a hazard to health.  
Cool closed containers exposed to fire with water spray.

**5.3 Advice for firefighters**

In the event of fire, wear self-contained breathing apparatus.  
Fight fire with normal precautions from a reasonable distance.

**Additional advice**

Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition.  
Ensure adequate ventilation.  
Do not breathe vapour.  
Prevent unauthorized access.

**6.2 Environmental precautions**

The product should not be allowed to enter drains, water courses or the soil.  
If the product contaminates rivers and lakes or drains inform respective authorities.

**6.3 Methods and material for containment and cleaning up**

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

Clean with detergents. Avoid solvents.  
Clean contaminated surface thoroughly.

**6.4 Reference to other sections**

Dispose of contaminated material as waste according to item 13.  
Refer to protective measures listed in sections 7 and 8.

**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling****Advice on safe handling**

Comply with the statutory regulations on health and safety at work.  
Avoid formation of aerosol.  
Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentration higher than the occupational exposure limit values.  
The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.  
All metal parts of the mixing and processing equipment must be earthed.  
Operators should wear antistatic footwear and clothing. No sparking tools should be used.

**Hygiene measures**

Do not breathe spray, vapour.  
Take off immediately all contaminated clothing.  
Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and immediately after handling the product.  
After washing hands, replenish lost skin oil by means of oily skin ointment.  
When using do not eat, drink or smoke.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage areas and containers**

Store in original container.  
Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. Nonsmoking.

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Advice on protection against fire and explosion	Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Protect from frost, heat and sunlight.
Advice on common storage	Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Take measures to prevent the build up of electrostatic charge.
Storage temperature	Keep away from combustible materials. Keep away from food, drink and animal feedingstuffs. Keep away from oxidizing agents and strongly acid or alkaline materials. 5 - 35 °C

**7.3 Specific end use(s)** For further information, see also Technical Data Sheet for the product.

<b>SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</b>
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**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
formic acid	64-18-6	TWA	5 ppm 9 mg/m <sup>3</sup>	2006/15/EC
Further information: Indicative				

The lists that were valid during the creation were used as basis.

Monitoring procedures for the assessment of workplace exposure: standard EN 482

**8.2 Exposure controls****Engineering measures**

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates solvent vapour below the occupational exposure limit values, suitable respiratory protection must be worn.

Washing facilities / water for rinsing eyes and skin should be available.

**Personal protective equipment**

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : butyl-rubber

Break through time : 480 min

Glove thickness : 0,4 mm

Remarks : e.g. KCL 897 "Butoject®" - butyl rubber protective glove - (Käthele-Cama-Latex GmbH, Hotline: 0049(0)6659-87-300, kcl-uk@kcl.de) or equal.

Skin that comes into contact with the product should be treated with protective cream. After such contact, the product concerned should under no circumstances be used.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its

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material but also on other quality features and is different from one producer to the other.

- Skin and body protection : Preventive skin protection
- Long sleeved clothing
- Personal should wear antistatic clothings made of natural fiber or of high temperature resistant synthehic fiber. All parts of the body should be washed after contact.
- Respiratory protection : When workers are facing concentrations above the occupational exposure limit values they must use appropriate certified respirators.
- In case of inadequate ventilation wear respiratory protection.
- Do not breathe in dust when grinding.
- Combination filter A-P2
- Respiratory protection complying with EN 14387.

**Environmental exposure controls**

- Air : Avoid release to the environment.
- Soil : Avoid subsoil penetration.
- Water : Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

- Physical state : paste
- Colour : grey
- Odour : characteristic
- Odour Threshold : No data available
- Melting point/freezing point : No data available
- Initial boiling point and boiling range : No data available

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Upper explosion limit / Upper flammability limit	:	47,6 %(V)	Medium: Upper explosion limit
Lower explosion limit / Lower flammability limit	:	0,95 %(V)	Medium: Lower explosion limit
Flash point	:	100 °C	Method: Pensky-Martens closed cup
Auto-ignition temperature	:	> 290 °C	
Decomposition temperature	:	No data available	
pH	:	3 - 4 (20 °C) Concentration: 1 %	
Viscosity Viscosity, dynamic	:	ca. 10.000 mPa.s	Method: DIN 53019
Viscosity, kinematic	:	ca. 9200 mm <sup>2</sup> /s	
Flow time	:	No data available	
Solubility(ies) Water solubility	:	partly soluble	
Partition coefficient: n-octanol/water	:	not determined	
Vapour pressure	:	ca. 0,8 hPa (20 °C)	
Density	:	ca. 1,09 g/cm <sup>3</sup> (20 °C)	Method: ISO 2811-1

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Relative vapour density : No data available

**9.2 Other information**

Explosives : Not explosive

Oxidizing properties : Not applicable

Flammability (liquids) : Not applicable

Self-ignition : > 290 °C

Metal corrosion rate : Not corrosive to metals

Evaporation rate : not applicable

**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions : No dangerous reaction known under conditions of normal use.  
Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**

Conditions to avoid : Direct sources of heat.  
Strong sunlight for prolonged periods.

**10.5 Incompatible materials**

Materials to avoid : Strong acids and strong bases  
Strong oxidizing agents

**10.6 Hazardous decomposition products**

No decomposition if stored and applied as directed.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**SÜDWEST Entlacker****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute toxicity****Product:**

Acute oral toxicity

Acute toxicity estimate: 1.992 mg/kg

Method: Calculation method

Acute inhalation toxicity

Acute toxicity estimate: &gt; 20 mg/l

Exposure time: 4 h

Test atmosphere: vapour

Method: Calculation method

Acute dermal toxicity

Based on available data, the classification criteria are not met.

**Components:****1-butylpyrrolidin-2-one:**

Acute oral toxicity

Harmful if swallowed.

**formic acid:**

Acute oral toxicity

Harmful if swallowed.

Acute inhalation toxicity

Toxic if inhaled.

**Skin corrosion/irritation****Product:**

Causes skin irritation.

**Components:****1-butylpyrrolidin-2-one:**

Causes skin irritation.

**formic acid:**

Causes severe skin burns and eye damage.

**Serious eye damage/eye irritation****Product:**

Causes serious eye irritation.

**Components:****1-butylpyrrolidin-2-one:**

Causes serious eye irritation.

**formic acid:**

Causes serious eye damage.

**Respiratory or skin sensitisation****Product:**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity****Product:**

Genotoxicity in vitro

Based on available data, the classification criteria are not met.

**Carcinogenicity****Product:**

Based on available data, the classification criteria are not met.

**Reproductive toxicity****Product:**

Effects on fertility

Based on available data, the classification criteria are not met.

Developmental Toxicity

Based on available data, the classification criteria are not met.

**STOT - single exposure****Product:**

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Based on available data, the classification criteria are not met.

**STOT - repeated exposure****Product:**

Based on available data, the classification criteria are not met.

**Aspiration toxicity****Product:**

Based on available data, the classification criteria are not met.

**Toxicology, Metabolism, Distribution****Further information****Product:**

The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

**11.2 Information on other hazards****Endocrine disrupting properties****Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**Experience with human exposure****Product:****General Information**

Exposure to component solvent vapours concentration in excess of the stated occupational exposure limit may result in adverse health effects.

Such as: mucous membrane irritation, respiratory system irritation, adverse effects on kidney, liver and central nervous system. Symptoms and signs: headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases loss of consciousness. Long-term or repeated contact with the product leads to degreasing of the skin and can cause nonallergenic contact skin damage (contact dermatitis) and / or the resorption of substances.

Solvent sprays can cause irritation and reversible damage to the eye.

**Further information****Product:****Remarks**

: The product itself has not been tested. The mixture is classified in accordance with Annex I to EC Directive 1272/2008. (See sections 2 and 3 for details).

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Product:****Toxicity to fish**

No data available

**12.2 Persistence and degradability****Product:****Biodegradability**

No data available

**12.3 Bioaccumulative potential****Product:****Bioaccumulation**

No data available

**12.4 Mobility in soil****Product:**

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Mobility No data available

**12.5 Results of PBT and vPvB assessment****Product:**

Assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

**12.6 Endocrine disrupting properties****Product:**

Assessment

: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**12.7 Other adverse effects****Product:**

Additional ecological information

Do not allow product to enter into ground water, bodies of water or sewage systems.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

Product

The user is responsible for proper coding and marking of any waste. When used as recommended, the waste code can be selected according to the code of the European Waste Catalogue (EWC), category 17.09 "Other Construction and Demolition Waste"

Partial and residual quantities can be reused.

Contaminated packaging

Fluid remains constitute hazardous waste and should not be poured into the sewage system. They should be taken to a local waste disposal site.

Empty packaging should be recycled through disposal systems.

Wastewater from removing paint: always collect any waste steam and water, and pour it over gravel, sand trap, or similar to separate solids.

Following consultation with the local authorities, the wastewater can usually be disposed of in the sewage system.

Waste key for the unused product

20 01 29\* detergents containing hazardous substances

(\*) hazardous waste in terms of the European directive 2008/98/EG

**SECTION 14: TRANSPORT INFORMATION****14.1 UN number or ID number**

Not regulated as a dangerous good

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards****14.6 Special precautions for user**

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Remarks This information is not available.

**14.7 Maritime transport in bulk according to IMO instruments**

Remarks Not applicable

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

VOC

Directive 2010/75/EU 1,7 %

VOC

Directive 2004/42/EC

does not fall under Directive 2004/42/EC

Regulation (EU) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals

Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)

Conditions of restriction for the following entries should be considered:  
(75, 3)formic acid

Other regulations

Comply with the statutory regulations on health and safety at work.  
Take note of Dir 94/33/EC on the protection of young people at work.  
Take note of Dir 92/85/EEC on the safety and health at work of pregnant workers.

**15.2 Chemical safety assessment**

This information is not available.

**SECTION 16: OTHER INFORMATION**

Changes from the previous version are indicated by markings in the left-hand margin. The information in this Safety Data Sheet corresponds to our present state of knowledge and conforms to both national and EU legislation. The user's working conditions are, however, beyond our knowledge and control. The user is responsible for complying with all necessary legal requirements. The information in this Safety Data Sheet describes the safety requirements of our product and does not constitute any assurance of product properties.

**Full text of H-Statements**

H226 : Flammable liquid and vapour.  
H290 : May be corrosive to metals.  
H302 : Harmful if swallowed.  
H314 : Causes severe skin burns and eye damage.  
H315 : Causes skin irritation.  
H318 : Causes serious eye damage.

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H319 : Causes serious eye irritation.  
H331 : Toxic if inhaled.

**Full text of other abbreviations**

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Met. Corr. : Corrosive to metals  
Skin Corr. : Skin corrosion  
Skin Irrit. : Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonised System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organisation; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardisation; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organisation for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further information**

Other information : The assessment was carried out in accordance with Article 6 (5) and Appendix I of EC Directive no. 1272/2008.

It is possible in the interim period that you may find different markings on packaging compared to the Material Safety Data Sheet until stocks have been used up. We ask for your understanding in this matter.

Department issuing MSDS  
REG\_EU / EN

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