

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 20.07.2021

Version number 3

Revision: 20.07.2021

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

- **1.1 Product identifier**
- **Trade name: SHERALÖFFEL-FLUID**
- **Article number: 702225**
- **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: Solvents**
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SHERA Werkstoff-Technologie GmbH & Co. KG  
Espohlstraße 53  
D-49448 Lemförde  
GERMANY  
sdb@shera.de  
+ 49 (0) 54 43 . 99 33 . 0
- **Further information obtainable from:** Department of product security.
- **1.4 Emergency telephone number:**  
Gif tinformationszentrum-Nord: +49 (0) 551-19240  
(Information in german or english)

### 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.
- **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
- **Hazard statements:**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.
- **Precautionary statements:**

|                |  |
|----------------|--|
| P210           | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.                                   |
| P233           | Keep container tightly closed.   |
| P280           | Wear protective gloves / eye protection.   |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or 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. |
| P337+P313      | If eye irritation persists: Get medical advice/attention.  |
| P403+P235      | Store in a well-ventilated place. Keep cool.   |
| P501           | Dispose of contents / container in accordance with local / regional / national / international regulations.                      |

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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:** Mixture of substances listed below with nonhazardous additions.

- **Dangerous components:**

|  |   |         |
|--|---|---------|
| CAS: 64-17-5<br>EINECS: 200-578-6<br>Index number: 603-002-00-5<br>Reg.nr.: 01-2119457610-43 | ethanol<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319                           | 80-100% |
| CAS: 78-93-3<br>EINECS: 201-159-0<br>Index number: 606-002-00-3                              | butanone<br>Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066 | 1-<5%   |

- **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:**
  - Take affected persons out of danger area and lay down.
  - Do not leave affected persons unattended.
  - Personal protection for the First Aider.
- **After inhalation:**
  - Supply fresh air; consult doctor in case of complaints.
  - No special measures required.
- **After skin contact:**
  - Skin degreasing possible after prolonged contact, use skin protection cream after prolonged skin contact.
  - Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:**
  - Rinse out mouth and then drink plenty of water.
  - Seek medical treatment.
- **4.2 Most important symptoms and effects, both acute and delayed**
  - Nausea.
  - Headache.
  - Dizziness.
  - Dizziness.
  - Unconsciousness.
  - Gastric or intestinal disorders.
- **Hazards**
  - Danger of pulmonary oedema.
  - If swallowing results in vomiting, product may be aspirated into lungs, Which can lead to chemical pneumonia or suffocation.
- **4.3 Indication of any immediate medical attention and special treatment needed**
  - May cause drowsiness or dizziness.
  - Later observation for pneumonia and pulmonary oedema.

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#### 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.
- **5.2 Special hazards arising from the substance or mixture**  
Danger of bursting.  
In case of fire, the following can be released:  
Carbon monoxide (CO).  
Carbon dioxide (CO<sub>2</sub>).
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
Remove containers from danger area if this is possible without risk to yourself or others.

#### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation.  
Do not breathe vapour.  
Use respiratory protective device against the effects of fumes / dust / aerosol.  
Avoid contact with skin and eyes.  
Keep away from ignition sources.  
Wear protective equipment. Keep unprotected persons away.
- **6.2 Environmental precautions**  
Suppress gases / fumes / haze with water spray.  
Inform the responsible authority when high quantities penetrated in water or sewerage system.  
Prevent the penetration of high quantities in water or sewerage system.  
Dilute with plenty of water.  
Do not allow to enter sewers / surface or ground water.
- **6.3 Methods and material for containment and cleaning up**  
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, universal binding agents).  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.
- **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 13 for disposal information.

#### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good interior ventilation, especially at floor level (Fumes are heavier than air).  
Keep away from heat and direct sunlight.  
Avoid prolonged / repeated skin contact.  
Avoid contact with skin and eyes.  
Do not breathe vapours.  
Do not exceed the occupational exposure limit(s) (OEL) and / or any other exposure limits.  
Avoid splashes or spray in enclosed areas.
- **Information about fire - and explosion protection:**  
Fumes can combine with air to form an explosive mixture.  
Flammable gas-air mixtures may form in empty receptacles.

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Use explosion-proof apparatus / fittings and spark-proof tools.  
Do not spray onto a naked flame or any incandescent material.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.

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

- **Storage**

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

Follow regulations for storage of flammable fluids.

Follow water-related legal regulations.

Store in a cool location.

- **Information about storage in one common storage facility:** Store away from oxidising agents.

- **Further information about storage conditions:**

Store receptacle in a well ventilated area.

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

- **Storage class:** No information available.

- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

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

**64-17-5 ethanol**

|                     |  |
|---------------------|--|
| WEL (Great Britain) | Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm               |
| AGW (Germany)       | Long-term value: 380 mg/m <sup>3</sup> , 200 ppm<br>4(II);DFG, Y |

**78-93-3 butanone**

|                     |   |
|---------------------|---|
| WEL (Great Britain) | Short-term value: 899 mg/m <sup>3</sup> , 300 ppm<br>Long-term value: 600 mg/m <sup>3</sup> , 200 ppm<br>Sk, BMGV |
| AGW (Germany)       | Long-term value: 600 mg/m <sup>3</sup> , 200 ppm<br>1(I);DFG, EU, H, Y  |
| IOELV (EU)          | Short-term value: 900 mg/m <sup>3</sup> , 300 ppm<br>Long-term value: 600 mg/m <sup>3</sup> , 200 ppm             |

- **Ingredients with biological limit values:**

**78-93-3 butanone**

|                      |   |
|----------------------|---|
| BMGV (Great Britain) | 70 µmol/L<br>Medium: urine<br>Sampling time: post shift<br>Parameter: butan-2-one |
| BGW (Germany)        | 2 mg/l<br>Medium: urine<br>Sampling time: post shift<br>Parameter: butan-2-one    |

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

- **8.2 Exposure controls**

- **Appropriate engineering controls** No further data; see item 7.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

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Avoid close or long term contact with the skin.

Use skin protection cream for skin protection.

The usual precautionary measures are to be adhered to when handling chemicals.

Wash hands before breaks and at the end of work.

- **Respiratory protection:**

Use suitable respiratory protective device only when aerosol or mist is formed.

If occupational exposure limits (OEL) and other exposure limits are observed long-term, no particular precautions are normally required.

Gas filter device as defined by EN 14387 Type A (organic gas / vapours, boiling point > 65 °C . colour code brown.

- **Hand protection**

The glove material has to be impermeable and resistant to the product. Due to missing tests no recommendation to the glove material can be given for the product. 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/face protection**



Tightly sealed goggles

- **Body protection:** Protective work clothing.

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**

- **General Information**

|   |                              |
|---|------------------------------|
| • <b>Colour:</b>  | Pink                         |
| • <b>Odour:</b>   | Like alcohol                 |
| • <b>Melting point/freezing point:</b>                            | -114.5 °C                    |
| • <b>Boiling point or initial boiling point and boiling range</b> | 78 °C                        |
| • <b>Flammability</b>   | Not applicable.              |
| • <b>Lower and upper explosion limit</b>                          |                              |
| • <b>Lower:</b>   | 3.5 Vol %                    |
| • <b>Upper:</b>   | 15 Vol %                     |
| • <b>Flash point:</b>   | 12 °C                        |
| • <b>Auto-ignition temperature:</b>                               | Product is not selfigniting. |
| • <b>Decomposition temperature:</b>                               | Not determined.              |
| • <b>pH at 20 °C</b>  | 7                            |
| • <b>Viscosity:</b>   |                              |
| • <b>Kinematic viscosity</b>                                      | Not determined.              |
| • <b>Dynamic:</b>   | Not determined.              |
| • <b>Solubility</b>   |                              |
| • <b>water:</b>   | Fully miscible.              |
| • <b>Partition coefficient n-octanol/water (log value)</b>        | Not determined.              |
| • <b>Vapour pressure at 20 °C:</b>                                | 59 hPa                       |

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|  |
|--|
| <ul style="list-style-type: none"> <li>· <b>Density and/or relative density</b></li> <li>· <b>Density at 20 °C:</b> 0.79 g/cm<sup>3</sup></li> <li>· <b>Relative density</b> Not determined.</li> <li>· <b>Vapour density</b> Not determined.</li> </ul>   |
| <ul style="list-style-type: none"> <li>· <b>9.2 Other information</b></li> <li>· <b>Appearance:</b></li> <li>· <b>Form:</b> Fluid</li> <li>· <b>Important information on protection of health and environment, and on safety.</b></li> <li>· <b>Ignition temperature:</b> 425 °C</li> <li>· <b>Explosive properties:</b> Product is not explosive. However, formation of explosive air / vapour mixtures are possible.</li> <li>· <b>Solvent content:</b></li> <li>· <b>VOC (EC):</b> 100.00 %</li> <li>· <b>Solids content:</b> 0.0 %</li> <li>· <b>Change in condition:</b></li> <li>· <b>Softening point/range</b></li> <li>· <b>Oxidising properties:</b> Not oxidizing.</li> <li>· <b>Evaporation rate</b> Not determined.</li> </ul>   |
| <ul style="list-style-type: none"> <li>· <b>Information with regard to physical hazard classes</b></li> <li>· <b>Explosives</b> Void.</li> <li>· <b>Flammable gases</b> Void.</li> <li>· <b>Aerosols</b> Void.</li> <li>· <b>Oxidising gases</b> Void.</li> <li>· <b>Gases under pressure</b> Void.</li> <li>· <b>Flammable liquids</b> Highly flammable liquid and vapour.</li> <li>· <b>Flammable solids</b> Void.</li> <li>· <b>Self-reactive substances and mixtures</b> Void.</li> <li>· <b>Pyrophoric liquids</b> Void.</li> <li>· <b>Pyrophoric solids</b> Void.</li> <li>· <b>Self-heating substances and mixtures</b> Void.</li> <li>· <b>Substances and mixtures, which emit flammable gases in contact with water</b> Void.</li> <li>· <b>Oxidising liquids</b> Void.</li> <li>· <b>Oxidising solids</b> Void.</li> <li>· <b>Organic peroxides</b> Void.</li> <li>· <b>Corrosive to metals</b> Void.</li> <li>· <b>Desensitised explosives</b> Void.</li> </ul> |

#### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No data available.
- **10.2 Chemical stability** No data available.
- **Thermal decomposition / conditions to be avoided:** Avoid impact, friction, heat, sparks, electrostatic charge.
- **10.3 Possibility of hazardous reactions** Develops readily flammable gases / fumes. Danger of receptacles bursting because of high vapour pressure when heated.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials** Oxidizing agents, strong.

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- **10.6 Hazardous decomposition products**  
Carbon monoxide (CO).  
Carbon dioxide (CO<sub>2</sub>).

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity:** Based on available data, the classification criteria are not met.

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

#### 64-17-5 ethanol

|            |          |                       |
|------------|----------|-----------------------|
| Oral       | LD50     | 10,470 mg/kg (Rat)    |
| Dermal     | LD50     | >2,000 mg/kg (Rabbit) |
| Inhalative | LC50/4 h | 117-125 mg/l (Rat)    |

#### 78-93-3 butanone

|        |      |                              |
|--------|------|------------------------------|
| Oral   | LD50 | 2,193 mg/kg (Rat) (OECD 403) |
| Dermal | LD50 | 5,000 mg/kg (Rabbit)         |

- **Skin corrosion/irritation** Frequently or prolonged contact with skin may cause dermal irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

78-93-3 butanone

List II

### SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

#### 64-17-5 ethanol

|           |                                      |
|-----------|--------------------------------------|
| EC50/72 h | 275 mg/l (Algae)                     |
| LC50/48 h | 5,012 mg/l (Daphnia (Daphnia magna)) |

#### 78-93-3 butanone

|           |  |
|-----------|--|
| EC50/48 h | >100 mg/l (Daphnia (Daphnia magna))      |
| LC50/48 h | >100 mg/l (Leuciscus idus (golden orfe)) |

- **12.2 Persistence and degradability** Easily biodegradable.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** For information on endocrine disrupting properties see section 11.

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- **12.7 Other adverse effects**
- **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.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **Waste disposal key:**  
The waste disposal code as prescribed in the European Waste Catalogue (EWC) depends on the waste producer and can thus vary for a product. The waste disposal code should thus be obtained separately from the waste producer in each case.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

|  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>   | UN1170   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>  | 1170 ETHANOL (ETHYL ALCOHOL)<br>ETHANOL (ETHYL ALCOHOL)<br>ETHANOL |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul> <div style="text-align: center; margin: 10px 0;">  </div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> | 3 Flammable liquids.<br>3  |
| <ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>  | II   |
| <ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> </ul>   | No.  |
| <ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>  | Warning: Flammable liquids.<br>33<br>F-E,S-D<br>A                  |
| <ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>  | Not applicable.  |

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|---|--|
| <ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>  | <p>Sending by post is either impossible or permitted only in limited circumstances. Follow special postal regulations.</p>             |
| <ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Excepted quantities (EQ):</b></li> <li>· <b>Limited quantities (LQ):</b></li> <li>· <b>Excepted quantities (EQ):</b></li> </ul> | <p>E2<br/>1L<br/>Code: E2<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 500 ml</p> |
| <ul style="list-style-type: none"> <li>· <b>Transport category:</b></li> <li>· <b>Tunnel restriction code:</b></li> </ul>   | <p>2<br/>D/E</p>   |
| <ul style="list-style-type: none"> <li>· <b>IMDG</b></li> <li>· <b>Limited quantities (LQ):</b></li> <li>· <b>Excepted quantities (EQ):</b></li> </ul>  | <p>1L<br/>Code: E2<br/>Maximum net quantity per inner packaging: 30 ml<br/>Maximum net quantity per outer packaging: 500 ml</p>        |
| <ul style="list-style-type: none"> <li>· <b>UN "Model Regulation":</b></li> </ul>   | <p>UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II</p>  |

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t
- **National regulations:**
- **Information about limitation of use:**
  - Employment restrictions concerning juveniles must be observed.
  - Employment restrictions concerning pregnant and lactating women must be observed.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 16: Other information

This information is based on the state of knowledge and experience pertaining on the date of issue. The information is not to be taken as a guarantee of product properties and do not constitute the basis for a contractual legal relationship. The details must not be changed or transferred to other products. Duplication in an unchanged state is permissible.

- **Relevant phrases**
  - H225 Highly flammable liquid and vapour.
  - H319 Causes serious eye irritation.
  - H336 May cause drowsiness or dizziness.
  - EUH066 Repeated exposure may cause skin dryness or cracking.
- **Department issuing SDS:** Department of product security.
- **Abbreviations and acronyms:**
  - RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  - ICAO: International Civil Aviation Organisation
  - ADR: Accord relatif au transport international 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

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ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids . Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation . Category 2  
STOT SE 3: Specific target organ toxicity (single exposure) . Category 3

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

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