

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

- **Date of compilation:** 07.11.2018
- **1.1 Product identifier**
- **Trade name:** **BACTO CLEAN LIQUID**
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the preparation:**  
Skin disinfectant  
Hand disinfectant
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**  
TECHNIQUA HANDELS GmbH  
Hartleitnerstraße 3  
A-4653 Eberstälzell  
Tel: +43 (0) 7241 213 79  
E-Mail: office@techniqua.at
- **1.4 Emergency telephone number:**  
Poisoning Information Centre (VIZ), Stubenring 6, A-1010 Vienna, Emergency call  
0-24 hrs: +43 1 406 43 43, Office hours: Monday to Friday, 8 to 16 hrs, Tel.: +43  
1 406 68 98

## SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 flame

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



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.

- **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-determining components of labelling:**  
Propan-2-ol
- **Hazard statements**  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.
- **Precautionary statements**  
P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P103 Read label before use.

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- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P261 Avoid breathing mist/vapours/spray.
- P280 Wear hearing protection.
- 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.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**
- **Description:** Alcoholic solution

- **Dangerous components:**

CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0	Propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	50-100%
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	Ethanol ⚠ Flam. Liq. 2, H225	≥2.5-<10%

- **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:** Immediately remove any clothing contaminated by the product.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**  
Wash with plenty of soap and water.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. Then consult doctor.  
Remove contact lenses, if present and easy to do.
- **After swallowing:**  
Rinse out mouth and then drink plenty of water.  
If swallowed, seek medical advice immediately and show this container or label.
- **4.2 Most important symptoms and effects, both acute and delayed**  
Headache  
Dazed  
Dizziness  
Unconsciousness
- **4.3 Indication of any immediate medical attention and special treatment needed**  
May cause drowsiness or dizziness.

### SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents**  
Carbon dioxide (CO<sub>2</sub>), extinguishing powder or water spray/fog. Fight larger fires with water spray/fog or alcohol-resistant foam.

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- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **5.2 Special hazards arising from the substance or mixture**  
Can be released in case of fire:  
Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)  
Can form explosive vapour-air mixtures.
- **5.3 Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information**  
Cool endangered containers with water spray jet.  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.  
If without risk possible, move drums with material away from dangerous area.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.  
Ensure adequate ventilation.  
Remove all ignition sources.  
Avoid contact with eyes.  
Use breathing protection against the effects of fumes/dust/aerosol.
- **6.2 Environmental precautions:**  
Damp down gases/fumes/haze with water spray jet.  
Do not allow to enter drainage system, surface or ground water.  
Prevent material from reaching sewage system, holes and cellars.
- **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).  
Send for recovery or disposal in suitable containers.  
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 13 for information on disposal.

### 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).  
Use only in well ventilated areas.  
Avoid contact with eyes.  
Avoid prolonged or repeated skin contact.  
Do not breathe vapour/spray.  
Make sure that all applicable workplace limits are observed.
- **Information about protection against explosions and fires:**  
Protect from heat.  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Fumes can combine with air to form an explosive mixture.  
Flammable fume/air mixtures may be formed in empty containers.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**  
Store in the original container.  
Observe regulations for storage of flammable liquids.  
Observe all local and national regulations for storage of water polluting products.

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- **Information about storage in one common storage facility:**  
Store away from foodstuffs.  
Store away from oxidising agents.
- **Further information about storage conditions:**  
Store container in a well ventilated position.  
Store in cool, dry conditions in well sealed containers.  
Protect from heat and direct sunlight.  
Store and transport upright.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

- **Components with critical values that require monitoring at the workplace:**

#### 67-63-0 Propan-2-ol

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
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#### 64-17-5 Ethanol

WEL (Great Britain)	Long-term value: 1920 mg/m <sup>3</sup> , 1000 ppm
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- **DNELs**

#### 67-63-0 Propan-2-ol

Oral	DNEL long-term exposure - systemic effects	26 mg/kg bw/d (general population)
Dermal	DNEL long-term exposure - systemic effects	319 mg/kg bw/d (general population) 888 mg/kg bw/d (worker)
Inhalative	DNEL long-term exposure - systemic effects	89 mg/m <sup>3</sup> (general population) 500 mg/m <sup>3</sup> (worker)

#### 64-17-5 Ethanol

Oral	DNEL long-term exposure - systemic effects	87 mg/kg bw/d (general population)
Dermal	DNEL long-term exposure - systemic effects	206 mg/kg bw/d (general population) 343 mg/kg bw/d (wao)
Inhalative	DNEL long-term exposure - systemic effects	114 mg/m <sup>3</sup> (general population) 950 mg/m <sup>3</sup> (worker)
	DNEL acute / short-term exposure - local effects	950 mg/m <sup>3</sup> (general population) 1,900 mg/m <sup>3</sup> (worker)

- **PNECs**

#### 67-63-0 Propan-2-ol

PNEC	140.9 mg/l (aqua (freshwater)) (Assessment factor 1)
	140.9 mg/l (aqua (intermittent releases)) (Assessment factor 1)
	140.9 mg/l (aqua (marine water)) (Assessment factor 1)
	2,251 mg/l (STP (sewage treatment plant)) (Assessment factor 1)
PNEC	552 mg/kg (sediment (freshwater))
	552 mg/kg (sediment (marine water))
	28 mg/kg (soil)

#### 64-17-5 Ethanol

PNEC	0.96 mg/l (aqua (freshwater))
	2.75 mg/l (aqua (intermittent releases))
	0.79 mg/l (aqua (marine water))

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	580 mg/l (STP (sewage treatment plant))
PNEC	3.6 mg/kg (sediment (freshwater))
	2.9 mg/kg (sediment (marine water))
	0.63 mg/kg (soil)

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**  
Keep away from foodstuffs, beverages and food.  
Instantly remove any contaminated garments.  
Wash hands during breaks and at the end of the work.  
Avoid contact with the eyes.  
Avoid close or long term contact with the skin.  
Do not inhale gases / fumes / aerosols.  
Do not eat, drink or smoke while working.
- **Breathing equipment:**  
Use breathing protection in case of insufficient ventilation.  
If all workplace limits are observed and good ventilation is ensured, no special precautions necessary.
- **Recommended filter device for short term use:**  
Filter marking A (colour code brown), for filtering of organic gas/vapour with boiling point over 65°C.
- **Protection of hands:**  
Use protective gloves on prolonged contact.  
To avoid skin problems reduce the wearing of gloves to the required minimum.  
Check the permeability prior to each renewed use of the glove.  
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 with side-shields (frame goggles) (e.g. EN 166)
- **Body protection:**  
Protective work clothing  
Body protection must be chosen depending on activity and possible exposure.

## SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

<b>Form:</b>	liquid
<b>Colour:</b>	colourless
<b>Smell:</b>	alcohol-like
<b>Odour threshold:</b>	not determined
- **pH-value:** not determined

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· <b>Change in condition</b> Melting point/freezing point:	<-20 °C
Initial boiling point and boiling range:	>78 °C
· <b>Flash point:</b>	<23 °C
· <b>Inflammability (solid, gaseous)</b>	Not applicable.
· <b>Ignition temperature:</b>	>400 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-inflammability:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/ vapour mixtures is possible.
· <b>Critical values for explosion:</b> Lower:	2 Vol %
Upper:	15 Vol %
· <b>Oxidising properties</b>	not classified as oxidising
· <b>Vapor pressure at 20 °C:</b>	~48 hPa
· <b>Density at 20 °C:</b>	~0.87 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density (AIR = 1):</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b> Water:	fully miscible
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.
· <b>Viscosity:</b> dynamic:	not determined
kinematic:	not determined
· <b>9.2 Other information</b>	Further informations please refer to technical data sheet.

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity** see 10.3
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.  
Sources of ignition  
Take precautionary measures against static discharge.
- **10.3 Possibility of hazardous reactions**  
Forms flammable gases / fumes  
Flammable vapour-air mixtures may develop.  
Used empty containers may contain product gases which form explosive mixtures with air.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** Strong oxidizing agents
- **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO<sub>2</sub>)

**SECTION 11: Toxicological information**

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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**· LD/LC50 values that are relevant for classification:****67-63-0 Propan-2-ol**

Oral	LDLo	3,570 mg/kg (human)
	LD50	3,600 mg/kg (mouse)
		5,045 mg/kg (rat)
		6,410 mg/kg (rabbit)
Dermal	LD50	12,800-13,400 mg/kg (rabbit)
Inhalative	LC50/4 h	30-46.5 mg/l (rat)

**64-17-5 Ethanol**

Oral	LD50	5,560 mg/kg (guinea pig)
		3,450 mg/kg (mouse)
		7,060 mg/kg (rat)
		6,300 mg/kg (rabbit)
Inhalative	LC50/4 h	20,000 mg/l (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Long or repeated contact can defat skin and may cause dermatitis.
- **Serious eye damage/irritation**  
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Subacute to chronic toxicity:** no data available
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of Regulation (EC) No. 1272/2008 (CLP/GHS):  
Eye Irrit. 2  
STOT SE 3  
Inhalation of concentrated vapours may lead to anaesthesia-like conditions and headache, dizziness, etc.
- **Sensitisation** No sensitizing effect known.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**  
According to present knowledge no CMR-effects known.
- **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**  
May cause drowsiness or dizziness.
- **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.

**SECTION 12: Ecological information****· 12.1 Toxicity****· Aquatic toxicity:****67-63-0 Propan-2-ol**

LC50/96 h	9,640 mg/l (fathead minnow ( <i>pimephales promelas</i> )) (OECD Guideline 203)
EC50/48 h	13,299 mg/l (water flea ( <i>daphnia magna</i> ))
LC50/48 h	8,970 mg/l ( <i>leuciscus idus</i> )

**64-17-5 Ethanol**

EC50/16 h	6,500 mg/l ( <i>pseudomonas putida</i> ) (EC5/16h)
EC50/48 h	9,268 mg/l (water flea ( <i>daphnia magna</i> ))
LC50/48 h	8,140 mg/l ( <i>leuciscus idus</i> )

- **12.2 Persistence and degradability** Easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.

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- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.  
Water hazard class 1 (Self-assessment): slightly hazardous for water
- **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**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.  
Disposal must be made according to official regulations.
- **European waste catalogue:**  
Waste disposal key numbers from EWC have to be assigned depending on origin and processing.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### SECTION 14: Transport information

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>14.1 UN-Number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>                                | UN1987   |
| <ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG, IATA</b></li> </ul> | UN1987 ALCOHOLS, N.O.S. (ISOPROPANOL), Special provision 640D<br>ALCOHOLS, N.O.S. (ISOPROPANOL)                              |
| <ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR</b></li> </ul>                           | <div style="text-align: center;">  </div> |
| <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>   | 3 (F1) Flammable liquids.<br>3   |
| <ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>  | <div style="text-align: center;">  </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   |

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· <b>14.6 Special precautions for user</b>	Warning: Flammable liquids.
· <b>Kemler Number:</b>	33
· <b>EMS Number:</b>	F-E,S-D
· <b>Stowage Category</b>	B
· <b>14.7 Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b>	
· <b>Limited quantities (LQ):</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>Transport category:</b>	2
· <b>Tunnel restriction code:</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1987 ALCOHOLS, N.O.S., SPECIAL PROVISION 640D (ISOPROPANOL), 3, II

**SECTION 15: Regulatory information**

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category P5c FLAMMABLE LIQUIDS**
- **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
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations**
- **Information about limitation of use:**  
Employment restrictions concerning pregnant and lactating women must be observed.  
Employment restrictions concerning young persons must be observed.
- **Decree to be applied in case of technical fault:** Directive 2012/18/EU does not apply.
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water
- **VOC (EU):** ~ 66 %
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

**SECTION 16: Other information**

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**  
The(se) H-phrases are those of the ingredient(s) and do(es) not necessarily represent the classification of the product.  
H225 Highly flammable liquid and vapour.  
H319 Causes serious eye irritation.

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*H336 May cause drowsiness or 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)*

*MAL-Code: Måleteknisk Arbejdshygiejnisk Luftbehov (Regulation for the labeling concerning inhalation hazards, Denmark)*

*DNEL: Derived No-Effect Level (REACH)*

*PNEC: Predicted No-Effect Concentration (REACH)*

*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*

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