

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH), (EU) 2020/878

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## Bacto Clean Gel 500ml

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

#### 1.1. Product identifier

Trade name/designation:

Bacto Clean Gel 500ml

Article No.:

T464001

UFI:

GHSU-NK8M-2NJE-Q8GD

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture:

Hand disinfectant

#### 1.3. Details of the supplier of the safety data sheet

Supplier:

**KANDO Service GmbH**

Hartleitnerstraße 3

4653 Eberstälzell

Austria

Telephone: +43 (0) 7241 213 79

E-mail: msds@kando.eu

#### 1.4. Emergency telephone number

Vergiftungsinformationszentrale (VIZ), Stubenring 6, 1010 Wien, 24h: 01 406 43 43, Montag - Freitag: 8 bis 16 Uhr, Tel.: 01 406 68 98 (keine medizinische Auskunft) (Only available during office hours.)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids ( <i>Flam. Liq. 2</i> )	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
Hazardous to the aquatic environment ( <i>Aquatic Chronic 3</i> )	H412: Harmful to aquatic life with long lasting effects.	

#### 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



**GHS02**  
Flame



**GHS07**  
Exclamation mark

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**Signal word:** Danger

### Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

### Hazard statements for health hazards

H319 Causes serious eye irritation.

### Hazard statements for environmental hazards

H412 Harmful to aquatic life with long lasting effects.

### Precautionary statements Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

### Precautionary statements Response

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.

### Precautionary statements Disposal

P501 Dispose of contents/container to an appropriate recycling or disposal facility.

## 2.3. Other hazards

### Other adverse effects:

Vapours can form explosive mixtures with air.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Description:

Alcoholic solution

#### Hazardous ingredients / Hazardous impurities / Stabilisers:

Product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 64-17-5 EC No.: 200-578-6 REACH No.: 01-2119457610-43	<b>ethanol</b> The substance is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].	80 - < 85 Vol-%
CAS No.: 112-72-1 EC No.: 204-000-3 REACH No.: 01-2119485910-33	<b>tetradecanol</b> Aquatic Chronic 1 (H410), Eye Irrit. 2 (H319) Warning	< 2.5 Vol-%

Full text of H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information:

Remove contaminated, saturated clothing.  
Get medical advice/attention if you feel unwell.

#### Following inhalation:

Remove person to fresh air and keep comfortable for breathing.  
Consult a doctor if symptoms persist.

#### In case of skin contact:

In case of skin irritation, consult a physician.

#### After eye contact:

Rinse immediately with plenty of water, also under the eyelid, for at least 15 minutes.  
In case of eye irritation consult an ophthalmologist.

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### Following ingestion:

Rinse out mouth immediately and drink plenty of water.  
Never give anything by mouth to an unconscious person!  
Call a physician immediately.  
If swallowed or vomited, danger of penetration into the lungs.

### 4.2. Most important symptoms and effects, both acute and delayed

Caution, danger of foam aspiration. Eye contact may cause irritation. Inhalation of high vapour concentrations may cause narcotic effects. May irritate mucous membranes.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media:

alcohol resistant foam, Dry extinguishing powder, Carbon dioxide (CO<sub>2</sub>), Water spray jet

#### Unsuitable extinguishing media:

Full water jet

### 5.2. Special hazards arising from the substance or mixture

#### Hazardous combustion products:

Carbon monoxide, Carbon dioxide  
Risk of formation of toxic pyrolysis products.

### 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus. Protective equipment.

### 5.4. Additional information

Vapours are heavier than air, spread along floors and form explosive mixtures with air.  
Cool endangered containers with water spray.  
Fire residues and contaminated extinguishing water must be disposed of in accordance with official regulations.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### Personal precautions:

Provide adequate ventilation. Keep away from sources of ignition - No smoking.  
Avoid contact with skin, eyes and clothes.  
Avoid breathing vapours.

#### 6.1.2. For emergency responders

##### Personal protection equipment:

Use respiratory protection if vapours develop.  
Use personal protection equipment.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains.

### 6.3. Methods and material for containment and cleaning up

#### For containment:

Prevent spread over a wide area (e.g. by containment or oil barriers).

#### For cleaning up:

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).  
Collect in closed and suitable containers for disposal.

### 6.4. Reference to other sections

See section 7 for further information on safe handling.  
For further information on personal protective equipment: see section 8.

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For further information on disposal: see section 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Protective measures

##### Advices on safe handling:

- Use only outdoors or in a well-ventilated area.
- Use solvent-resistant equipment.
- Avoid spilling or spraying in enclosed spaces.

##### Fire prevent measures:

- Keep away from sources of ignition - No smoking.
- Take precautionary measures against static discharges.
- Vapours are heavier than air, spread along floors and form explosive mixtures with air.

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

##### Requirements for storage rooms and vessels:

- Keep container tightly closed and in a well-ventilated place. Store in a cool dry place.
- Protect from heat and direct sunlight.
- Keep/Store only in original container.

##### Hints on storage assembly:

Incompatible with: Oxidizing agent

**Storage class (TRGS 510, Germany):** 3 - Flammable liquids

#### 7.3. Specific end use(s)

##### Recommendation:

Hand disinfectant

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### 8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① Long-term occupational exposure limit value ② Short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
MAK (AT)	<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6	① 1,000 ppm (1,900 mg/m <sup>3</sup> )
MAK (AT)	<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6	② 2,000 ppm (3,800 mg/m <sup>3</sup> ) ⑤ (max. 3x60 min./Schicht, Momentanwert)

##### 8.1.2. Biological limit values

No data available

##### 8.1.3. DNEL-/PNEC-values

No data available

#### 8.2. Exposure controls

##### 8.2.1. Appropriate engineering controls

Provide adequate ventilation.

##### 8.2.2. Personal protection equipment

##### Eye/face protection:

No eye protection required if used properly, otherwise safety goggles with side shields.

##### Skin protection:

Body protection:  
Long-sleeved work clothing (DIN EN ISO 6530)

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### Respiratory protection:

Usually no personal respiratory protection necessary.

In case of inadequate ventilation wear respiratory protection. (Gas filter type A, EN 14387).

### Other protection measures:

General protective and hygienic measures:

Do not inhale vapours and spray mist.

Do not eat, drink or smoke when using this product.

Avoid contact with eyes.

Take off contaminated clothing and wash it before reuse.

### 8.2.3. Environmental exposure controls

No data available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state: Gel

Colour: colourless

Odour: Alcohol

#### Safety relevant basis data

Parameter	Value	at °C	① Method ② Remark
pH	7.5 - 8.5	20 °C	
Melting point	< -20 °C		
Freezing point	No data available		
Initial boiling point and boiling range	≈ 85 °C		
Flash point	14 °C		
Evaporation rate	No data available		
Auto-ignition temperature	> 425 °C		
Upper/lower flammability or explosive limits	3.5 - 15 Vol-%		
Vapour pressure	No data available		
Vapour density	No data available		
Density	0.833 - 0.843 g/cm <sup>3</sup>	20 °C	
Bulk density	not applicable		
Water solubility	miscible	20 °C	
Dynamic viscosity	250 mPa* s	20 °C	
Kinematic viscosity	No data available		

### 9.2. Other information

Solvent content: 80% - 85%

The product is not explosive, but the formation of explosive vapour/air mixtures is possible.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No decomposition when used as directed.

### 10.2. Chemical stability

Stable under normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

Reaction with: Oxidizing agent

### 10.4. Conditions to avoid

Vapour/air mixtures are explosive when heated. When heated, flammable vapours may be released.

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### 10.5. Incompatible materials

Oxidizing agent

### 10.6. Hazardous decomposition products

Carbon monoxide, Carbon dioxide

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Toxicological information

Mixture related information
LD <sub>50</sub> oral: >10 mg/kg (Rat) OECD 401
ethanol CAS No.: 64-17-5 EC No.: 200-578-6
ATE (oral): 10,470 mg/kg
LD <sub>50</sub> oral: >2,000 mg/kg (Rat) IUCLID
LD <sub>50</sub> dermal: >2,000 mg/kg (Rat)
LC <sub>50</sub> Acute inhalation toxicity (vapour): >20 mg/L (Rat) RTECS

#### Acute oral toxicity:

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

#### Acute dermal toxicity:

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

#### Acute inhalation toxicity:

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

#### Skin corrosion/irritation:

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

#### 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:

None of the ingredients are included.

#### Other information:

Inhalation of high vapour concentrations may cause narcotic effects. Skin absorption possible. May irritate mucous membranes.

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### SECTION 12: Ecological information

#### 12.1. Toxicity

<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6
<b>LC<sub>50</sub></b> : >1,000 mg/L 4 d (fish)
<b>LC<sub>50</sub></b> : =11,200 mg/L 1 d
<b>EC<sub>50</sub></b> : >1,000 mg/L 2 d (crustaceans, Daphnia magna)
<b>EC<sub>50</sub></b> : =275 mg/L 3 d
<b>NOEC</b> : =9.6 mg/L
<b>ErC<sub>50</sub></b> : >100 mg/L
<b>LC<sub>50</sub></b> : 8,140 mg/L 2 d (fish, Leuciscus idus (golden orfe))
<b>EC<sub>50</sub></b> : 6,500 mg/L (Algae/water plant, Pseudomonas putida)

#### Assessment/classification:

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6
<b>Biodegradation</b> : Yes, rapidly
<b>Remark</b> : Readily biodegradable (according to OECD criteria).

#### Biodegradation:

No further relevant information available.

#### 12.3. Bioaccumulative potential

<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6
<b>Log K<sub>OW</sub></b> : -0.31

#### Accumulation / Evaluation:

No further relevant information available.

#### 12.4. Mobility in soil

No further relevant information available.

#### 12.5. Results of PBT and vPvB assessment

<b>ethanol</b> CAS No.: 64-17-5 EC No.: 200-578-6
<b>Results of PBT and vPvB assessment</b> : —
<b>tetradecanol</b> CAS No.: 112-72-1 EC No.: 204-000-3
<b>Results of PBT and vPvB assessment</b> : —

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

#### 12.6. Endocrine disrupting properties

None of the ingredients are included.

#### 12.7. Other adverse effects

Product may contain organically bound halogen and contribute to the AOX value. Slightly hazardous to water. No adverse effects on the environment are known or expected if handled according to specifications. Do not allow to enter surface water/groundwater.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose of waste according to applicable legislation. Reuse (recycling) is preferable to disposal.

##### 13.1.1. Product/Packaging disposal

#### Waste codes/waste designations according to EWC/AVV

##### Waste code product

07 06 04 *	other organic solvents, washing liquids and mother liquors
------------	--

\*: Evidence for disposal must be provided.

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### Waste treatment options

#### Appropriate disposal / Package:

Hand in empty containers for local recycling, recovery or waste disposal. Contaminated packaging is to be emptied optimally, it can then be reused after appropriate cleaning. Packaging that cannot be cleaned should be disposed of in the same way as the substance.

## SECTION 14: Transport information

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1. UN number or ID number</b>			
UN 1987	UN 1987	UN 1987	UN 1987
<b>14.2. UN proper shipping name</b>			
ALCOHOLS, N.O.S. (Ethanol)	ALCOHOLS, N.O.S. (Ethanol)	ALCOHOLS, N.O.S. (Ethanol)	ALCOHOLS, N.O.S. (Ethanol)
<b>14.3. Transport hazard class(es)</b>			
 3	 3	 3	 3
<b>14.4. Packing group</b>			
II	II	II	II
<b>14.5. Environmental hazards</b>			
No	No	No	No
<b>14.6. Special precautions for user</b>			
<b>Special Provisions:</b> 274   601   640D <b>Limited quantity (LQ):</b> 1 L / 30 kg <b>Excepted Quantities (EQ):</b> E2 <b>Hazard identification number (Kemler No.):</b> 33 <b>Classification code:</b> F1 <b>Tunnel restriction code:</b> (D/E)	<b>Special Provisions:</b> 274   601   640D <b>Limited quantity (LQ):</b> 1 L / 30 kg <b>Excepted Quantities (EQ):</b> E2 <b>Classification code:</b> F1	<b>Special Provisions:</b> 274 <b>Limited quantity (LQ):</b> 1 L <b>Excepted Quantities (EQ):</b> E2 <b>EmS-No.:</b> F-E, S-D	<b>Special Provisions:</b> A3   A180 <b>Limited quantity (LQ):</b> Y341 <b>Excepted Quantities (EQ):</b> E2 <b>Remark:</b> IATA Packing Instructions - Passenger: 353 IATA Maximum Quantity - Passenger: 5 L IATA-Verpackungsanweisung - Cargo: 364 IATA Maximum Quantity - Cargo: 60 L

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU legislation

##### Restrictions on use:

Restrictions on use (REACH, Annex XVII) Entry 3

##### Other regulations (EU):

Hazard categories:

- P5c Flammable liquids of Categories 2 or 3, not covered by P5a and P5b

##### Directive 2004/42/EC on the limitation of emissions of volatile organic compounds:

Volatile organic compounds (VOC) content in percent by weight: 81 Vol-%



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### 15.1.2. National regulations

No data available

### 15.2. Chemical Safety Assessment

A chemical safety assessment has not been carried out.

## SECTION 16: Other information

### 16.1. Indication of changes

No data available

### 16.2. Abbreviations and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AOX	Adsorbable Organic halogen compounds
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
DNEL	derived no-effect level
EC <sub>50</sub>	Effective Concentration 50%
ES	Exposure scenario
EWC	European Waste Catalogue
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IUCLID	International Uniform Chemical Information Database
LC <sub>50</sub>	Lethal (fatal) Concentration 50%
LD <sub>50</sub>	Lethal (fatal) Dose 50%
MAK	Maximum concentration in the workplace air (CH)
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety & Health
NOEC	No Observed Effect Concentration
OECD	Organisation for Economic Cooperation and Development
OSHA	Occupational Safety & Health Administration
PBT	persistent and bioaccumulative and toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation and Authorization of Chemicals
RID	Dangerous goods regulations for transport by rail
RTECS	Registry of Toxic Effects of Chemical Substances
TRGS	Technische Regeln für Gefahrstoffe
UN	United Nations
VOC	Volatile organic compounds

### 16.3. Key literature references and sources for data

No data available

### 16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard classes and hazard categories	Hazard statements	Classification procedure
flammable liquids ( <i>Flam. Liq. 2</i> )	H225: Highly flammable liquid and vapour.	
Serious eye damage/eye irritation ( <i>Eye Irrit. 2</i> )	H319: Causes serious eye irritation.	
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### 16.5. List of relevant hazard statements and/or precautionary statements from sections 2 to 15

Hazard statements	
H319	Causes serious eye irritation.
H410	Very toxic to aquatic life with long lasting effects.

### 16.6. Training advice

No data available

### 16.7. Additional information

To the best of our knowledge, the information contained herein is accurate. However, neither the above-mentioned supplier nor its subsidiaries assume any liability with regard to the correctness or completeness of the information provided. A final determination of the suitability of individual materials is the sole responsibility of the user. All materials may involve unknown risks and should be used with caution. While certain risks are described herein, we cannot guarantee that these are the only possible risks.