

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

#### 1.1. Product identifier

Product form	: Liquid, mixture
Product name.	Lufthansa Foaming Hand Sanitizer
Product group	: Trade product
Product code	: ELB-4000/B/2C
Part number	: TR-BR40LH series
BAuA Registration No.	: N-75747

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

##### 1.2.1. Relevant identified uses

Use of the substance/preparation : Product for use as a hand biocide

##### 1.2.2. Uses advised against

No data available

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

Celeste Industries Corporation  
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Thames Valley Park  
Reading  
Berkshire, RG6 1PT, England  
Tel +44 (0) 1189 637930

##### Home Office:

Celeste Industries Corporation  
8221 Teal Drive, Suite 405  
Easton, Maryland 21601 (USA)  
Within USA: (410) 822-5775  
International: 00 (1) 410-822-5775  
e-mail: info@celestecorp.com

#### 1.4. Emergency telephone number

Emergency contact number : For Chemical Emergency, Spill, Leak, Fire, Exposure or Accident call CHEMTREC (24 hours) within USA and CANADA: 1-800-424-9300  
Outside USA and Canada (collect call accepted): 1-703-527-3883

### SECTION 2: Hazards identification

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

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

Not classified as hazardous

##### Adverse physicochemical, human health and environmental effects

Not classified as dangerous for use/supply

#### 2.2. Label elements

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

Pictograms: None  
Signal Word: None  
Hazard Statement: None  
Precautionary Statements: None

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

This mixture is a solution containing Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides. The substances classified according to Regulation (EC) 1272/2008 present in this mixture are reported in the following table

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according to Regulation (EC) No. 453/2010

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,2'-(ethylenedioxy)diethanol	(CAS No.) 112-27-6 (EC No) 203-953-2	1 %	Not classified
Glycerol, ethoxylated	(CAS No.) 31694-55-0 (EC No) 500-075-4	1 %	Not classified
Quaternary ammonium compounds, benzyl-C12-18-alkyldimethyl, chlorides	(CAS No.) 68391-01-5 (EC No) 269-919-4	0.10 %	Acute Tox. 4, H302 Skin Corr. 1B, H314 Aquatic Acute 1, H400

The remaining components are either not hazardous or below the reporting threshold.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : If respiratory irritation occurs upon inhalation, remove to fresh air. Seek medical attention if symptoms develop or persist.
- First-aid measures after skin contact : Generally not required; rinse with plenty of water if needed.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes.
- First-aid measures after ingestion : Seek medical attention immediately. If the person is fully conscious, make him/her drink water. Never give an unconscious person anything to drink. Do not induce vomiting.

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

- Symptoms/injuries after inhalation : Inhalation of mist or aerosol may cause irritation to nose and throat
- Symptoms/injuries after skin contact : Repeated or prolonged direct skin contact may cause irritation or drying of skin.
- Symptoms/injuries after eye contact : May cause irritation to the eyes.
- Symptoms/injuries after ingestion : May cause irritation to the respiratory tract and to other 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: : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : None known.

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

- Fire hazard : Non combustible
- Reactivity : Stable under normal conditions of use.

### 5.3. Advice for firefighters

- Protective equipment for firefighters : Wear proper protective equipment including self-contained breathing apparatus.

## SECTION 6: Accidental release measures

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

- General measures : Ensure adequate ventilation. Avoid contact with eyes.

#### 6.1.1. For non-emergency personnel

- Protective equipment : Chemical resistant gloves as needed. Use splash goggles to prevent eye contact as needed.

#### 6.1.2. For emergency responders

- Protective equipment : Chemical resistant gloves. Use splash goggles when eye contact due to splashing is possible.

### 6.2. Environmental precautions

No additional information available

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

- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, dike with dirt, then remove by vacuum truck for disposal.

### 6.4. Reference to other sections

Refer to sections 8 and 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with eyes.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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

Technical measures: : Provide adequate ventilation.  
Storage condition(s) : Store in dry, cool, well-ventilated area; avoid freezing.

### 7.3. Specific end use(s)

This product is for use as a hand biocide.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No data available

### 8.2. Exposure controls

Appropriate engineering controls : Ensure adequate ventilation.  
Personal protective equipment : Normally not required when used as intended.

Hand protection : Product is designed for use on hands.  
Eye protection : Normally not required if used as intended.  
Skin and body protection : Normally not required if used as intended.  
Respiratory protection : Normally not required if used as intended.

## SECTION 9: Physical and chemical properties

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

Physical state : Mixture  
Appearance : Liquid, dispenses as a foam  
Colour : Transparent  
Odour : No data available  
Odour threshold : No data available  
pH : 5.5 – 7.5  
Relative evaporation rate (butylacetate=1) : No data available  
Melting point : No data available  
Freezing point : 32 F  
Boiling point : No data available  
Flash point : None  
Self ignition temperature : No data available  
Decomposition temperature : No data available  
Flammability (solid, gas) : No data available  
Vapour pressure : No data available  
Relative vapour density at 20 °C : No data available  
Relative density : 0.95 - 1.05  
Solubility : Soluble in water  
Log Pow : No data available  
Log Kow : No data available  
Viscosity, kinematic : No data available  
Viscosity, dynamic : No data available  
Explosive properties : Not explosive  
Oxidising properties : Not oxidizing  
Explosive limits : No data available

### 9.2. Other information

No data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions of use.

### 10.2. Chemical stability

Stable under normal conditions of use.

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## 10.3. Possibility of hazardous reactions

None known.

## 10.4. Conditions to avoid

No data available

## 10.5. Incompatible materials

No data available

## 10.6. Hazardous decomposition products

None known.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: Not classified
Serious eye damage/irritatio	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Aspiration hazard	: Not classified

## SECTION 12: Ecological information

### 12.1. Toxicity

No significant harmful effects anticipated.

### 12.2. Persistence and degradability

Benzalkonium chloride is readily biodegradable.

### 12.3. Bioaccumulative potential

Benzalkonium chloride is not considered to be bioaccumulative.

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

A chemical safety report has not been carried out.

### 12.6. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Regional legislation (waste)	: Dispose of contents/container to comply with applicable local, national and international regulations.
Waste disposal recommendations	: Comply with local regulations for disposal.

## SECTION 14: Transport information

Not classified as dangerous for transport.

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

This safety data sheet has been compiled according to the requirements of Regulation (EC) No 1907/2006.

Benzalkonium chloride is an active substance currently being reviewed in accordance with Regulation (EU) No 528/2012 concerning the placing of biocidal products on the market

#### 15.1.2. National regulations

German BAuA Registration Number: N-75747

### 15.2. Chemical safety assessment

CSA has not been established

## SECTION 16: Other information

Sources of Key data : SDS, ECHA.

# Safety Data Sheet

according to Regulation (EC) No. 453/2010

## Abbreviations and acronyms

: ACGIH (American Conference of Government Industrial Hygienists). ASTM - American Society for Testing and Materials . CAS - Chemical Abstracts Service. CLP - Classification, Labelling and Packaging. CSR - Chemical Safety Report. EEC - European Economic Community. EC - European Community. GHS - Globally Harmonised System. HMIS - Hazardous Materials Identification System. MSDS - Material Safety Data Sheet. OSHA - Occupational Safety and Health Administration. Overland transport (ADR). PEL- Permissible Exposure Level. REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals. Relat - Relative. SDS - Safety Data Sheet . STEL- Short-Term Exposure Limit . TLV- Threshold Limit Value. TWA- Time Weighted Average.

## Full text of R-, H- and EUH-phrases:

Acute Tox. 4	Acute toxicity category 4
H302	Harmful if swallowed.
Skin Corr. 1B	Skin corrosive category 1B
H314	Causes severe skin burns and eye damage.
Aquatic Acute 1	Acute aquatic toxicity category 1
H400	Very toxic to aquatic life.

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