### SAFETY DATA SHEET

(Prepared in accordance with Regulation (EC) 2015/830)

Date of Issue: 25 October 2019

# SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking

### 1.1 Product Identifier

Product name: GermFree24 Hand

Sanitiser

Manufacturer's product code: GermFree24

# 1.2 Relevant identified uses of the substance and uses advised against

### 1.2.1 Relevant identified uses:

Product for use as a human hygiene biocide

### 1.2.2 Uses advised against

No specific uses advised against.

# 1.3 Details of the supplier of the Safety Data Sheet

### Manufacturer

### **ZOONO GROUP LIMITED**

31 Hannigan Drive St. Johns 1072 Auckland New Zealand

Phone: +64210659977

info@zoono.com

### **EU Contact**

### **Zoono Holdings Ltd**

15 Bunting Road Bury St Edmunds Suffolk

**United Kingdom** 

**IP32 7BX** 

Phone: +447852922214

Availability: 24 hours

### 1.4 Emergency telephone number

Telephone number UK: +447852922214

Availability: 24 hours

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### **SECTION 2** Hazards Identification

### 2.1 Classification of the mixture

### 2.1.1 Classification according to Regulation (EC) 1272/2008 [CLP/GHS]

Chronic Aquatic Toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects

### 2.1.3 Additional information

For full text of Hazard- and EU Hazard-statements applicable to both the product and the pure active substance: see SECTION 16 of this SDS.

### 2.2 Label Elements

# 2.2.1 According to Regulation (EC) 1272/2008 [CLP/GHS]

Pictograms: None Signal Word: None

**Hazard Statements:** 

H412: Harmful to aquatic life with long lasting effects

**Precautionary Statements:** 

P273: Avoid release to the environment.

P501: Dispose of contents in accordance with national regulations.

### 2.3 Other Hazards

PBT or vPvB not evaluated.

# **SECTION 3** Composition/information on ingredients

### 3.1 Substance Not applicable

### 3.2 Mixture

This mixture is a solution containing Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

The substances classified according to Regulation (EC) 1272/2008 present in this mixture are reported in the following table.

Common	CAS	EC	%	Classification
name	Number	Number	(w/w)	according to
				Regulation (EC)
				1272/2008
Benzalkonium	68424-85-1	270-325-2	<1.00	Acute Tox 4 H302
chloride				Skin Corr. 1B H314
				Aquatic Acute 1 H400
				Aquatic Chronic 1 H410
	name Benzalkonium	name Number  Benzalkonium 68424-85-1	name Number Number  Benzalkonium 68424-85-1 270-325-2	name         Number         Number         (w/w)           Benzalkonium         68424-85-1         270-325-2         <1.00

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

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SECTION 4 First Aid Measures

# 4.1 Description of First Aid Measures

### General notes:

Treat exposure symptomatically. Seek medical attention if symptoms develop or persist.

**Following inhalation:** In case of accidental inhalation or unwellness, remove to fresh air from exposure. If symptoms develop, seek medical advice.

**Following skin contact:** If symptoms develop, consult a physician. Take off contaminated clothing.

**Following ingestion:** If accidently swallowed, rinse the mouth with plenty of water (only if the person is conscious) and consult a physician.

**Following eye contact:** Rinse cautiously for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. If eye irritation persists, get medical advice/attention.

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

Not known. Exposure should be treated symptomatically.

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

Not known. Exposure should be treated symptomatically.

### SECTION 5 Fire fighting measures

# 5.1 Suitable extinguishing media

The product is not flammable. Use fire extinguishing media appropriate for surrounding materials.

# 5.2 Special Hazards arising from the substance or mixture

There are no unusual fire or explosion hazards associated with this product.

### 5.3 Advice for firefighters

No specific fire-fighting procedures.

### **SECTION 6** Accidental Release Measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Follow precautions for safe handling described in this safety data sheet. Refer to Section 8, if appropriate.

### 6.2 Environmental precautions

Prevent material from entering drains or waterways. If drains, streams, soil or sewers become contaminated then notify local authority.

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### 6.3 Methods and materials for containment and cleaning up

<u>Large amounts (1000L and above):</u> Remove leaking containers to a detached area. Bund spill area and recover – consider recycling. Absorb spilled product with inert material (e.g. sand, earth etc.).

Small amounts (5L or smaller pack sizes): Wash away with plenty of water.

Clean equipment used for clean-up with water.

### 6.4 Reference to other sections

Refer to sections 8 and 13 for guidance on personal protective equipment and disposal considerations.

### **SECTION 7** Handling and Storage

# 7.1 Precautions for safe handling

### 7.1.1 Protective measures

Measures to prevent fire and explosion: No special measures required.

1000L and above: Avoid eye contact. Wear chemical type goggles or safety glasses. Wear PVC gloves and protective clothing.

5 Litre and below pack sizes: No special measures required

# 7.1.2 Advice on general occupational hygiene

Use of the personal protective equipment referred to in Section 8 is required.

# 7.2 Conditions for safe storage including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

# 7.3 Specific end use

This product is for use as a human hygiene biocide.

# SECTION 8 Exposure controls/ personal protection

### 8.1 Control Parameters

None of the components of the mixture currently have exposure limit values.

### 8.2 Exposure Controls

# 8.2.1 Appropriate engineering controls

1000L and above: Ventilation: In processes were mists or vapours may be generated, proper ventilation must be provided in accordance with good ventilation practices. 5 Litre and below pack sizes: No special measures required

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# 8.2.2 Personal protection

Eye/face protection: No specific eye/face protection noted, but Safety goggles may still be advisable for high volumes of product e.g. 1000L IBC.

Skin protection: No specific hand protection noted, but gloves may still be advisable for high volumes of product e.g. 1000L IBC. Respiratory protection: No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

# 8.2.3 Environmental exposure controls.

Use the product in accordance with label instructions. Avoid unnecessary release to drains and waterways.

Liquid

Fatty

# **SECTION 9** Physical and Chemical Properties

# Property Appearance Odour

Odour threshold Not available 6.0 - 9.0рН Melting point/Freezing point Not available **Boiling point** >100°C Flash point >100°C Evaporation rate Not available Not flammable Flammability Upper lower flammability/explosive limits Not available Vapour pressure Not available Vapour density Not available Relative density  $0.98 - 1.01 \,\mathrm{g/L}$ Solubility in water Soluble Solubility in organic solvents Not available Partition coefficient (n-octanol/water) Not applicable Auto-ignition temperature Not available Decomposition temperature Not available Viscosity Not available **Explosive properties** Not explosive Oxidising properties Not oxidising

### SECTION 10 Stability and Reactivity

# 10.1 Reactivity

Stable under normal operating conditions.

### 10.2 Chemical Stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions or polymerisation known.

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### 10.4 Conditions to avoid

No conditions known.

# 10.5 Incompatible materials

Avoid contact with strong oxidising/reducing agents.

# 10.6 Hazardous decomposition products

Toxic organic vapours/fumes, amines, CO, CO2, nitrogen oxides, hydrogen chloride may be released during decomposition.

# **SECTION 11** Toxicological Information

Toxicological Endpoint	Value		
Acute Oral Toxicity	Not hazardous based on calculation of components		
Acute Dermal Toxicity	Not hazardous based on calculation of components		
Acute Inhalation toxicity	Not hazardous based on calculation of components		
Skin irritation	Not hazardous based on calculation of components		
Eye irritation	Not hazardous based on calculation of components		
Skin sensitisation	Not hazardous based on calculation of components		
Repeat dose toxicity (Short term)	Data not available		
Germ cell mutagenicity	None of the components of the mixture are classified		
	as genotoxic.		
Carcinogenicity	None of the components of the mixture are classified		
	as carcinogenic		
Reproductive toxicity	None of the components of the mixture are classified		
	as toxic to reproduction		

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### SECTION 12 Ecotoxicological Information

### 12.1 Toxicity

The ecotoxicological values for benzalkonium chloride taken from the EU Biocide CAR are presented in the table below

Species	Timescale	Endpoint	Value
Fish	96 hour	LD <sub>50</sub>	0.28 mg/L
Invertebrates	48 hour	EC <sub>50</sub>	0.016 mg/L
Algae	72 hour	E <sub>r</sub> C <sub>50</sub>	0.049 mg/L

# 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 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 other adverse effects reported.

# **SECTION 13** Disposal considerations

#### 13.1 Waste treatment methods

### 13.1.1 Product/Packaging disposal

Industrial use: Product should be disposed of as hazardous waste. Plastics should be sent for recycling or buried in landfill.

The waste treatment code for this product is 20 01 19 municipal wastes and similar commercial, industrial and institutional wastes: Biocides.

Professional use: Dispose of empty containers for recycling.

### 13.1.2 Waste treatment information

Waste should not be disposed of by release to sewers.

### 13.2 Additional information

Ensure compliance with EC, national and local regulations. Do not dispose of wastes in the local sewer or drainage system.

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### SECTION 14 Transport Information

### 14.1 UN Number

Not hazardous for transport.

### 14.2 UN Proper shipping name

Not hazardous for transport.

### 14.3 Transport hazard classes

Not hazardous for transport.

### 14.4 Packing group

Not hazardous for transport.

### 14.5 Environmental hazards

Not hazardous for transport.

### **SECTION 15** Regulatory Information

### 15.1 Safety health and environmental regulations specific for the substance

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

Benzalkonium chloride & Dimethyloctadecyl[3-(trimethoxysilyl)propyl]ammonium chloride are active substances currently being reviewed in accordance with Regulation (EU) No 528/2012 concerning the placing of biocidal products on the market.

### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out.

### **SECTION 16** Other Information

### 16.1 Indication of changes

This is the third version of the SDS written in accordance with Commission Regulation (EU) 2015/830.

The changes include an updated classification due to new information. This is impacted other section of the SDS which have also been updated.

### 16.2 Abbreviations and acronyms

CAS: Chemical Abstracts Service EC: Emulsifiable Concentrate

IUPAC: International Union of Pure and Applied Chemistry

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PBT: Persistent Bioaccumulative Toxic vPvB: Very persistent very bioaccumulative

### 16.3 Key literature references and sources for data

Information used in the preparation of this Safety Data Sheet has come from information provided by Zoono Limited. Endpoints for Benzalkonium Chloride were reported by the EU Biocides CAR.

# 16.4 Classification and procedure used to derive the classification according to Regulation (EC) 1272/2008 (CLP)

All the endpoints for the classification have been derived by the calculation method for the active and co-formulants.

### 16.5 Relevant H statements

Hazard Statements applicable to the neat active substance (The active substance is always diluted into a Zoono product placed on the market. As such Zoono products will not contain a 100% neat active substance.)

H302: Harmful if swallowed

H314: Causes severe skin burns and eye damage

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

Hazard statements applicable to the product as sold: H412: Harmful to aquatic life with long lasting effects

### 16.6 Training advice

Read instructions for use before using this product.

### 16.7 Further information

The above information may be based in part on information provided by component suppliers and is believed to be correct as of the date hereof. However, no warranty of merchantability, fitness for any use, or any other warranty is express or is to be implied regarding the accuracy of these data, the results to be obtained from the use of the material, or the hazards connected with such use. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we assume no responsibility for the result of its use. This information and material furnished on the condition that the person receiving it shall make his/her own determination as to the suitability of the material for his/her particular purpose and on the condition that he/she assume the risk of his/her use thereof.