



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
UK REACH Regulations (SI 2019/758 as amended)

Revision date 01/06/2026

Revision Number 1

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

### **1.1. Product identifier**

<b>Product Code(s)</b>	C9100
<b>Safety data sheet number</b>	0000156
<b>Product Name</b>	Antibacterial Surface Cleanser Tropical Edition
<b>Pure substance/mixture</b>	Mixture
<b>Formula</b>	9100F1

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

**Recommended use** Cleaning hard surfaces around the home with antibacterial action.

**Uses advised against**

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

#### **Manufacturer**

The London Oil Refining Company Ltd  
Astonish House  
Unit 8 Thornbury Ind. Park.  
Woodhall Road  
Bradford BD3 7AF, UK  
Tel: +44 1274 767440 (8am-4pm Mon-Fri)  
[www.astonish.co.uk](http://www.astonish.co.uk)

For further information, please contact

**E-mail address** [info@astonish.co.uk](mailto:info@astonish.co.uk)

### **1.4. Emergency telephone number**

**Emergency Telephone** UK - Emergency Telephone: +44 (0) 1274 767440 (8am-4pm Mon-Fri).

Alternatively in UK: Contact NHS 111 Telephone 111 (24 hours a day, 7days a week):  
Website 111.nhs.uk or a doctor

## **SECTION 2: Hazards identification**

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

Not classified

### **2.2. Label elements**

Not classified

#### **Hazard statements**

Not classified

#### **Precautionary statements**

P102 - Keep out of reach of children

P103 - Read label before use

P101 - If medical advice is needed, have product container or label at hand

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

### **2.3. Other hazards**

No information available.

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

### **3.1 Substances**

Not applicable

### **3.2 Mixtures**

The product contains no substances which at their given concentration, are considered to be hazardous to health

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Butyl Diglycol 112-34-5	0.25 - <0.5%	(603-096- 00-8) 203-961-6	-	Eye Irrit. 2 (H319)	-	-	-

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

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (UK REACH Article 59)

## **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.
Ingestion	Rinse mouth.

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

Symptoms	No information available.
Effects of Exposure	See Section 11 for additional Toxicological Information.

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

Note to physicians	Treat symptomatically.
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### **SECTION 5: Firefighting measures**

#### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** No information available.

#### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

### **SECTION 6: Accidental release measures**

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

**Personal precautions** Ensure adequate ventilation.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

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

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Ensure adequate ventilation.

**General hygiene considerations** Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Keep container tightly closed in a dry and well-ventilated place.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure Limits**

Chemical name	United Kingdom
Butyl Diglycol 112-34-5	TWA: 10 ppm TWA: 67.5 mg/m <sup>3</sup> STEL: 15 ppm STEL: 101.2 mg/m <sup>3</sup>

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

#### **Derived No Effect Level (DNEL) - Workers**

Chemical name	Oral	Dermal	Inhalation
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3		2080 mg/kg bw/day [4] [6]	294 mg/m <sup>3</sup> [4] [6]
Butyl Diglycol 112-34-5		83 mg/kg bw/day [4] [6]	67.5 mg/m <sup>3</sup> [4] [6] 67.5 mg/m <sup>3</sup> [5] [6] 101.2 mg/m <sup>3</sup> [5] [7]
Alanine, N,N-bis(carboxymethyl)-, trisodium salt 164462-16-2		170 mg/kg bw/day [4] [6] 2000 mg/kg bw/day [4] [7] 2000 mg/cm <sup>2</sup> [5] [7]	40 mg/m <sup>3</sup> [4] [6] 40 mg/m <sup>3</sup> [4] [7] 4 mg/m <sup>3</sup> [5] [6] 40 mg/m <sup>3</sup> [5] [7]
Ethanol 64-17-5		343 mg/kg bw/day [4] [6]	950 mg/m <sup>3</sup> [4] [6] 1900 mg/m <sup>3</sup> [5] [7]
Sodium Hydroxide 1310-73-2			1 mg/m <sup>3</sup> [5] [6]

**Notes**

- [4] Systemic health effects.
- [5] Local health effects.
- [6] Long term.
- [7] Short term.

**Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	25 mg/kg bw/day [4] [6]		87 mg/m <sup>3</sup> [4] [6]
Butyl Diglycol 112-34-5	5 mg/kg bw/day [4] [6]		40.5 mg/m <sup>3</sup> [4] [6] 40.5 mg/m <sup>3</sup> [5] [6] 60.7 mg/m <sup>3</sup> [5] [7]
Alanine, N,N-bis(carboxymethyl)-, trisodium salt 164462-16-2	17 mg/kg bw/day [4] [6] 85 mg/kg bw/day [4] [7]	400 mg/kg bw/day [4] [6] 400 mg/kg bw/day [4] [7] 400 mg/cm <sup>2</sup> [5] [7]	20 mg/m <sup>3</sup> [4] [6] 20 mg/m <sup>3</sup> [4] [7] 2 mg/m <sup>3</sup> [5] [6] 20 mg/m <sup>3</sup> [5] [7]
Ethanol 64-17-5	87 mg/kg bw/day [4] [6]		114 mg/m <sup>3</sup> [4] [6] 950 mg/m <sup>3</sup> [5] [7]
Sodium Hydroxide 1310-73-2			1 mg/m <sup>3</sup> [5] [6]

**Notes**

- [4] Systemic health effects.
- [5] Local health effects.
- [6] Long term.
- [7] Short term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	0.10379 mg/L	0.014 mg/L	0.10379 mg/L		
Butyl Diglycol	1.1 mg/L	11 mg/L	0.11 mg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
112-34-5					
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides 68424-95-3	1 µg/L	0.66 µg/L	0.1 µg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Undecanol, branched and linear, ethoxylated (>5-15 EO) 68439-46-3	13.7 mg/kg sediment dw	13.7 mg/kg sediment dw	1.4 mg/L	1 mg/kg soil dw	
Butyl Diglycol 112-34-5	4.4 mg/kg sediment dw	0.44 mg/kg sediment dw	200 mg/L	0.32 mg/kg soil dw	56 mg/kg food
Alanine, N,N-bis(carboxymethyl)-, trisodium salt 164462-16-2				2.5 mg/kg soil dw	
Quaternary ammonium compounds, di-C8-10-alkyldimethyl, chlorides 68424-95-3			500 µg/L		

**8.2. Exposure controls**

**Engineering controls** No information available.

**Personal protective equipment**

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**SECTION 9: Physical and chemical properties**

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

**Physical state** Liquid  
**Color** Colourless  
**Odor** Tropical Fruits.  
**Odor threshold** Not applicable

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	6.0 8.5	None known
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapor pressure	No data available	None known
Relative density	0.996 1.007	None known
Bulk density	No data available	
Liquid Density	No data available	
Relative vapor density	No data available	None known
Particle characteristics		
Particle Size		
Particle Size Distribution		
Explosive properties	No information available	
Oxidizing properties	No information available	

**9.2. Other information**

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

Reactivity Stable.

**10.2. Chemical stability**

Stability Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

**10.3. Possibility of hazardous reactions**

Possibility of hazardous reactions None under normal processing.

**10.4. Conditions to avoid**

Conditions to avoid None known based on information supplied.

**10.5. Incompatible materials**

**Incompatible materials** None known based on information supplied.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** None known based on information supplied.

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Information on likely routes of exposure**

**Product Information**

**Inhalation** No known effect based on information supplied.  
**Eye contact** May cause slight eye irritation.  
**Skin contact** No known effect based on information supplied.  
**Ingestion** No known effect based on information supplied.

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** May cause redness and tearing of the eyes.

**Acute toxicity**

**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)** 99,999.00 mg/kg  
**ATEmix (dermal)** 99,999.00 mg/kg  
**ATEmix (inhalation-gas)** 99,999.00 ppm  
**ATEmix (inhalation-vapor)** 99,999.00 mg/l  
**ATEmix (inhalation-dust/mist)** 99,999.00 mg/l

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Butyl Diglycol	= 5660 mg/kg ( Rat )	= 2700 mg/kg ( Rabbit )	-

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Based on available data, the classification criteria are not met.  
**Serious eye damage/eye irritation** Based on available data, the classification criteria are not met.  
**Respiratory or skin sensitization** 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.

**Other adverse effects** No other adverse effects expected.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Not considered to be harmful to aquatic life.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Butyl Diglycol	EC50: >100mg/L (96h, <i>Desmodesmus subspicatus</i> )	LC50: =1300mg/L (96h, <i>Lepomis macrochirus</i> )	-	EC50: >100mg/L (48h, <i>Daphnia magna</i> )

### 12.2. Persistence and degradability

**Persistence and degradability** None known.

### 12.3. Bioaccumulative potential

**Bioaccumulation** Not likely to bioaccumulate.

Chemical name	Partition coefficient
Butyl Diglycol	1

### 12.4. Mobility in soil

**Mobility in soil** Not determined.

### 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB above the threshold of declaration.

Chemical name	PBT and vPvB assessment
Butyl Diglycol	The substance is not PBT / vPvB

12.6. Other adverse effects

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

**SECTION 14: Transport information**

IATA

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

IMDG

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None
14.7 Maritime transport in bulk according to IMO instruments	Not regulated

RID

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

ADR

14.1 UN number or ID number	Not regulated
14.2 UN proper shipping name	Not regulated
14.3 Transport hazard class(es)	Not regulated
14.4 Packing group	Not regulated
14.5 Environmental hazards	Not applicable
14.6 Special precautions for user	
Special Provisions	None

## SECTION 15: Regulatory information

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

#### National regulations

##### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (UK REACH - Annex XIV). This product does not contain substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorization per REACH Annex XIV
Butyl Diglycol - 112-34-5	Use restricted. See item 55.	-

##### Persistent Organic Pollutants

Not applicable

##### Export Notification requirements

Not applicable

##### Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

##### The Ozone-Depleting Substances Regulations 2015

Not applicable

##### The Biocidal Products Regulations 2001 (as amended)

Not applicable

##### The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

##### Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

#### International Inventories

<b>TSCA</b>	Contact supplier for inventory compliance status
<b>DSL/NDSL</b>	Contact supplier for inventory compliance status
<b>EINECS/ELINCS</b>	Contact supplier for inventory compliance status
<b>ENCS</b>	Contact supplier for inventory compliance status
<b>IECSC</b>	Contact supplier for inventory compliance status
<b>KECL</b>	Contact supplier for inventory compliance status
<b>PICCS</b>	Contact supplier for inventory compliance status
<b>AIIC</b>	Contact supplier for inventory compliance status
<b>NZIoC</b>	Contact supplier for inventory compliance status

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals

**15.2. Chemical safety assessment**

**Chemical Safety Report**

A Chemical Safety Assessment has not been carried out for this mixture

**SECTION 16: Other information**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

**Legend**

SVHC: Substances of Very High Concern for Authorization:

**Legend Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitizers		

**Classification procedure**

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapor	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitization	Calculation method
Skin sensitization	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**Key literature references and sources for data used to compile the SDS**

- Agency for Toxic Substances and Disease Registry (ATSDR)
- U.S. Environmental Protection Agency ChemView Database
- European Food Safety Authority (EFSA)
- European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)
- European Chemicals Agency (ECHA) (ECHA\_API)
- EPA (Environmental Protection Agency)
- Acute Exposure Guideline Level(s) (AEGL(s))
- U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
- U.S. Environmental Protection Agency High Production Volume Chemicals
- Food Research Journal
- Hazardous Substance Database
- International Uniform Chemical Information Database (IUCLID)
- National Institute of Technology and Evaluation (NITE)
- Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
- NIOSH (National Institute for Occupational Safety and Health)
- National Library of Medicine's ChemID Plus (NLM CIP)
- National Library of Medicine's PubMed database (NLM PUBMED)
- National Toxicology Program (NTP)
- New Zealand's Chemical Classification and Information Database (CCID)

Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
Organization for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

**Revision date** 01/06/2026

**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended) Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**

**UK SDS version information - XGHS**

UL release:  
GHS Revision 7  
2022 Q1

**United Kingdom**

Partial process, including GHS Wizard, NO TW

Chemical name	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)
Butyl Diglycol	Eye Irrit. 2 (H319)	