



## SAFETY DATA SHEET

### Astonish Germ Clear Disinfectant Straight to Surface

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

##### 1.1. Product identifier

**Product name** Astonish Germ Clear Disinfectant Straight to Surface  
**Product number** 141501  
**Internal identification** F7V3

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

**Identified uses** Cleaning hard surfaces around the home with antibacterial action.

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

###### Supplier

The London Oil Refining Company Ltd  
 Astonish House  
 Unit 1 Premier Point  
 Staithgate Lane  
 Bradford BD6 1DW  
 (01274) 767440 (office hours only)  
 www.astonishcleaners.com  
 (01274) 726285

**Contact person** info@astonish.co.uk

##### 1.4. Emergency telephone number

**Emergency telephone** (01274) 767440 (office hours only)

#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Not Classified  
**Environmental hazards** Aquatic Chronic 3 - H412

**Classification (67/548/EEC or 1999/45/EC)** R52/53

##### 2.2. Label elements

**Hazard statements** H412 Harmful to aquatic life with long lasting effects.  
**Precautionary statements** P102 Keep out of reach of children.  
 P103 Read label before use.  
 P273 Avoid release to the environment.  
**Additional Labelling** < 5% Disinfectants

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**Detergent labelling** < 5% cationic surfactants, < 5% non-ionic surfactants, Contains Limonene

### 2.3. Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

|  |  |  |
|--|--|--|
| <b>Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides</b> <1%   |  |  |
| CAS number: 68424-85-1   | EC number: 270-325-2   |  |
| M factor (Acute) = 10  | M factor (Chronic) = 1   |  |
| <b>Classification</b><br>Met. Corr. 1 - H290<br>Acute Tox. 4 - H302<br>Skin Corr. 1B - H314<br>Eye Dam. 1 - H318<br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410 | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>Xn; R22. C; R34. N; R50/53 |  |
| <b>Isopropanol</b> <1%   |  |  |
| CAS number: 67-63-0  | EC number: 200-661-7   | REACH registration number: 01-2119457558-25-0000 |
| <b>Classification</b><br>Flam. Liq. 2 - H225<br>Eye Irrit. 2 - H319<br>STOT SE 3 - H336  | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>F; R11. Xi; R36. R67       |  |
| <b>Sodium Hydroxide</b> <1%  |  |  |
| CAS number: 1310-73-2  | EC number: 215-185-5   | REACH registration number: 01-2119457892-07-0000 |
| <b>Classification</b><br>Met. Corr. 1 - H290<br>Skin Corr. 1A - H314   | <b>Classification (67/548/EEC or 1999/45/EC)</b><br>C; R35                     |  |

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                     |   |
|---------------------|---|
| <b>Inhalation</b>   | Remove exposure and give water to drink if mouth irritation experienced. Seek medical advice if recovery not rapid. |
| <b>Ingestion</b>    | Drink water. If symptoms persist seek medical advice.   |
| <b>Skin contact</b> | Rinse affected area with water.   |
| <b>Eye contact</b>  | Rinse thoroughly with water for several minutes. If symptoms persist seek medical advice.                           |

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

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|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Possible mild irritation of breathing passage and possible mouth irritation. |
| <b>Ingestion</b>    | Possible mild stomach upset and mild soreness of mouth.                      |
| <b>Skin contact</b> | Possible mild transient irritation of skin.                                  |
| <b>Eye contact</b>  | Possible mild irritation, redness and soreness.                              |

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

|                             |                    |
|-----------------------------|--------------------|
| <b>Notes for the doctor</b> | No data available  |
| <b>Specific treatments</b>  | No data available. |

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media** Use extinguisher suitable to cause of fire.

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

**Specific hazards** Product does not support combustion, minimal fire hazard. Minimal quantities of oxides of carbon may be produced.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Use protection suitable to cause of fire.

## SECTION 6: Accidental release measures

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

**Personal precautions** Avoid contact with skin and eyes.

### 6.2. Environmental precautions

**Environmental precautions** For bigger spillages non-household spillages prevent entry into sewer or drains. The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

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

**Methods for cleaning up** Absorb household spillages with e.g kitchen roll and dispose of in bin. Wipe affected area clean with a damp cloth.

### 6.4. Reference to other sections

**Reference to other sections** None

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Use as instructed on label.

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

**Storage precautions** Store in ambient conditions. Keep out of the reach of children.

### 7.3. Specific end use(s)

**Specific end use(s)** Cleaning hard surfaces around the home providing antibacterial action.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

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### Isopropanol

Long-term exposure limit (8-hour TWA): EH40 WEL, WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): EH40 WEL 500 ppm 1,250 mg/m<sup>3</sup>

### Sodium Hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### Citric Acid Monohydrate (CAS: 5949-29-1)

|             |   |
|-------------|---|
| <b>PNEC</b> | <ul style="list-style-type: none"> <li>- Fresh water; 0.44 mg/l</li> <li>- Sediment (Freshwater); 3.46 mg/kg</li> <li>- Sediment (Marinewater); 34.6 mg/kg</li> <li>- Marine water; 0.044 mg/l</li> <li>- STP; &gt;1000 mg/l</li> <li>- Soil; 33.1 mg/kg</li> </ul> |
|-------------|---|

### 8.2. Exposure controls

**Environmental exposure controls**            This product does not pose a hazard in normal use.

## SECTION 9: Physical and Chemical Properties

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

|   |                                       |
|---|---------------------------------------|
| <b>Appearance</b>                                   | Clear green liquid Slightly viscous   |
| <b>Colour</b>                                       | Green.                                |
| <b>Odour</b>  | Pine                                  |
| <b>Odour threshold</b>                              | Not known.                            |
| <b>pH</b>   | pH (concentrated solution): 7.5 - 9.5 |
| <b>Melting point</b>                                | Not known.                            |
| <b>Initial boiling point and range</b>              | Not measured (>100°C)                 |
| <b>Flash point</b>                                  | Not determined.                       |
| <b>Evaporation rate</b>                             | Not known.                            |
| <b>Evaporation factor</b>                           | Not known.                            |
| <b>Flammability (solid, gas)</b>                    | Does not ignite.                      |
| <b>Upper/lower flammability or explosive limits</b> | Does not ignite.                      |
| <b>Other flammability</b>                           | Not relevant.                         |
| <b>Vapour pressure</b>                              | Not determined.                       |
| <b>Vapour density</b>                               | > 1 (Air=1)                           |
| <b>Relative density</b>                             | 0.990 - 1.006 @ 20°C                  |
| <b>Bulk density</b>                                 | Not relevant.                         |
| <b>Solubility(ies)</b>                              | Soluble in water                      |
| <b>Partition coefficient</b>                        | Not known.                            |

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|   |                                 |
|---|---------------------------------|
| <b>Auto-ignition temperature</b>                | Not known.                      |
| <b>Decomposition Temperature</b>                | Not available.                  |
| <b>Viscosity</b>                                | Not measured                    |
| <b>Explosive properties</b>                     | None                            |
| <b>Explosive under the influence of a flame</b> | Not considered to be explosive. |
| <b>Oxidising properties</b>                     | Not applicable.                 |

### 9.2. Other information

|                          |       |
|--------------------------|-------|
| <b>Other information</b> | None. |
|--------------------------|-------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |                                 |
|-------------------|---------------------------------|
| <b>Reactivity</b> | No reactivity hazards expected. |
|-------------------|---------------------------------|

### 10.2. Chemical stability

|                  |                                 |
|------------------|---------------------------------|
| <b>Stability</b> | Stable under normal conditions. |
|------------------|---------------------------------|

### 10.3. Possibility of hazardous reactions

|   |                               |
|---|-------------------------------|
| <b>Possibility of hazardous reactions</b> | None under normal conditions. |
|---|-------------------------------|

### 10.4. Conditions to avoid

|                            |             |
|----------------------------|-------------|
| <b>Conditions to avoid</b> | None known. |
|----------------------------|-------------|

### 10.5. Incompatible materials

|                           |             |
|---------------------------|-------------|
| <b>Materials to avoid</b> | None known. |
|---------------------------|-------------|

### 10.6. Hazardous decomposition products

|   |                |
|---|----------------|
| <b>Hazardous decomposition products</b> | Carbon oxides. |
|---|----------------|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

|                              |   |
|------------------------------|---|
| <b>Toxicological effects</b> | This mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met. |
|------------------------------|---|

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 795.0

**Species** Rat

**ATE oral (mg/kg)** 795.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 1,560.0

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**Species** Rat

### Isopropanol

**Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,820.0

**Species** Rat

**ATE oral (mg/kg)** 5,820.0

**Acute toxicity - dermal**

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 12,800.0

**Species** Rabbit

**ATE dermal (mg/kg)** 12,800.0

### Sodium Hydroxide

**Acute toxicity - oral**

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 2,000.0

**Species** Rat

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity** The mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

#### Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

**Acute aquatic toxicity**

**LE(C)<sub>50</sub>** 0.01 < L(E)C<sub>50</sub> ≤ 0.1

**M factor (Acute)** 10

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 1.7 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: 0.03 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 96 hours: 0.06 mg/l, Selenastrum capricornutum

**Acute toxicity - microorganisms** EC<sub>20</sub>, 0.5 hour: 10 mg/l, Activated sludge

**Chronic aquatic toxicity**

**M factor (Chronic)** 1

### Isopropanol

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

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|   |  |
|---|--|
| <b>Acute toxicity - aquatic invertebrates</b> | EC <sub>50</sub> , 48 hours: 13299 mg/l, Daphnia magna           |
| <b>Acute toxicity - aquatic plants</b>        | EC <sub>50</sub> , 72 hours: 1.000 mg/l, Desmodosmus subspicatus |
| <b>Acute toxicity - microorganisms</b>        | EC <sub>50</sub> , : >1000 mg/l, Activated sludge                |

### Sodium Hydroxide

|   |  |
|---|--|
| <b>Acute toxicity - fish</b>                  | LC <sub>50</sub> , 96 hours: 125 mg/l, Freshwater fish |
| <b>Acute toxicity - aquatic invertebrates</b> | EC <sub>50</sub> , 24 hours: 76 mg/l, Daphnia magna    |
| <b>Acute toxicity - microorganisms</b>        | EC <sub>50</sub> , 15 minute: 22 mg/l, Bacteria        |

### 12.2. Persistence and degradability

**Persistence and degradability** Contains detergents that satisfy the bio-degradation requirements of directive 648/2004/EC. Alcohols branched/linear, ethoxylated - Readily biodegradable; >70%; 28d; aerobic; OECD Test Guideline 301A.

### Isopropanol

**Biodegradation** - Degradation 95: 21 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** Not available.

**Partition coefficient** Not known.

### 12.4. Mobility in soil

**Mobility** The components of the mixture are readily absorbed into soil and are mobile in water environment.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** No data available.

### 12.6. Other adverse effects

**Other adverse effects** Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Dispose of according to local regulations. Avoid disposing into drainage systems and into the environment. Dispose of contaminated packaging in the same way as the product itself. Non-contaminated packages may be recycled.

## SECTION 14: Transport information

**General** Not regulated.

### 14.1. UN number

Not applicable.

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### 14.2. UN proper shipping name

Not applicable.

### 14.3. Transport hazard class(es)

Not regulated.

### 14.4. Packing group

Not applicable.

### 14.5. Environmental hazards

**Environmentally hazardous substance/marine pollutant**

No.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

## SECTION 15: Regulatory information

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

#### **EU legislation**

This safety data sheet is compliant with EC Regulation 1907/2006 (REACH) as adapted by 453/2010, Directive 67/548/EEC and EC Regulation 1272/2008 (CLP).  
Dangerous Preparations Directive 1999/45/EC.  
Regulation (EC) No. 648/2004 of the European Parliament and of the Council of 31st March 2004 on detergents.  
Biocidal Products Regulation (528/2012/EC)

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

## SECTION 16: Other information

#### **Abbreviations and acronyms used in the safety data sheet**

ATE: Acute Toxicity Estimate.  
CAS: Chemical Abstracts Service.  
LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
PNEC: Predicted No Effect Concentration.  
EC<sub>50</sub>: 50% of maximal Effective Concentration.

#### **General information**

Note: The hazard statements below are explanations of phrases used in the SDS as abbreviations and DO NOT apply to the product. The statements applicable to the product are those identified in Section 2 only.

#### **Revision comments**

Product name change.

#### **Issued by**

The London Oil Refining Company Ltd

#### **Revision date**

18/05/2017

#### **Revision**

7.3

#### **Supersedes date**

25/08/2016

#### **SDS number**

4956



## Astonish Germ Clear Disinfectant Straight to Surface

### Risk phrases in full

R11 Highly flammable.  
R22 Harmful if swallowed.  
R34 Causes burns.  
R35 Causes severe burns.  
R36 Irritating to eyes.  
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R67 Vapours may cause drowsiness and dizziness.

### Hazard statements in full

H225 Highly flammable liquid and vapour.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.