



## SAFETY DATA SHEET

### Astonish Germ Kill Disinfectant & Cleaner with Natural Pine Oil.

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

##### 1.1. Product identifier

<b>Product name</b>	Astonish Germ Kill Disinfectant & Cleaner with Natural Pine Oil.
<b>Product number</b>	141601
<b>Internal identification</b>	1416F1V1

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

<b>Identified uses</b>	Cleaning hard surfaces around the home with antibacterial action. Spray directly onto the surface. For surface disinfection leave for a minimum of 5 minutes. Wipe clean with a damp sponge. Effective against bacterial and enveloped viruses.
<b>Uses advised against</b>	Avoid direct contact with food, Perspex, rubber and soft plastics. Use biocides safely. Do not use for personal cleansing. Avoid direct contact with pets.

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

<b>Supplier</b>	The London Oil Refining Company Ltd Astonish House Unit 1 Premier Point Staithgate Lane Bradford, BD6 1DW, UK Tel: +44 1274 767440 (office hours only) www.astonishcleaners.co.uk
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Astonish Cleaners Europe Ltd  
38 Main Street  
Swords  
Co. Dublin  
Republic of Ireland  
K67E0A2  
Tel: +353 768 885288  
www.astonishcleaners.eu

<b>Contact person</b>	info@astonish.co.uk info@astonishcleaners.eu
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<b>Manufacturer</b>	As supplier.
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##### 1.4. Emergency telephone number

<b>Emergency telephone</b>	UK - Emergency Telephone (01274) 767440 (8am-4pm Mon-Fri). ROI - Poisons Information Centre of Ireland: 01 809 2166 8am-10pm 7 days a week
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#### SECTION 2: Hazards identification

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

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

<b>Physical hazards</b>	Not Classified
<b>Health hazards</b>	Not Classified

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**Environmental hazards** Aquatic Chronic 3 - H412

### 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** None

**Biocide Labelling** Contains active substance: Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

**Detergent labelling** < 5% cationic surfactants, < 5% disinfectants, < 5% EDTA and salts thereof, < 5% non-ionic surfactants, < 5% perfumes

### 2.3. Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Butyl Diglycol</b>	<b>1-5%</b>
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CAS number: 112-34-5	EC number: 203-961-6
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**Classification**

Eye Irrit. 2 - H319

<b>tetrasodium ethylene diamine tetraacetate</b>	<b>&lt;1%</b>
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CAS number: 64-02-8	EC number: 200-573-9
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**Classification**

Acute Tox. 4 - H302  
Acute Tox. 4 - H332  
Eye Dam. 1 - H318  
STOT RE 2 - H373

<b>Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides</b>	<b>&lt;1%</b>
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CAS number: 68424-85-1	EC number: 270-325-2
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M factor (Acute) = 10	M factor (Chronic) = 1
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**Classification**

Acute Tox. 4 - H302  
Skin Corr. 1B - H314  
Eye Dam. 1 - H318  
Aquatic Acute 1 - H400  
Aquatic Chronic 1 - H410

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

## Astonish Germ Kill Disinfectant & Cleaner with Natural Pine Oil.

<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**

<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** For personal protection, see Section 8. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

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

### **7.1. Precautions for safe handling**

**Usage precautions** Use as instructed on label. Avoid breathing spray. Point spray away from face.

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

**Storage precautions**                      Store in ambient conditions.

### 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

##### **Butyl Diglycol**

Long-term exposure limit (8-hour TWA): 10 ppm 67.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): 15 ppm 101.2 mg/m<sup>3</sup>

### 8.2. Exposure controls

**Hand protection**                      For users with sensitive skin, it is recommended that suitable protective gloves are worn.

**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
<b>Colour</b>	Green.
<b>Odour</b>	Pine/Herbal
<b>Odour threshold</b>	Not known.
<b>pH</b>	pH (concentrated solution): 7.0 - 9.0
<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>	0.995 - 1.005 @ 20°C
<b>Bulk density</b>	Not relevant.
<b>Solubility(ies)</b>	Soluble in water
<b>Partition coefficient</b>	Not known.
<b>Auto-ignition temperature</b>	Not known.

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<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.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

<b>Reactivity</b>	No reactivity hazards expected.
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### 10.2. Chemical stability

<b>Stability</b>	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

<b>Possibility of hazardous reactions</b>	None under normal conditions.
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### 10.4. Conditions to avoid

<b>Conditions to avoid</b>	None known.
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### 10.5. Incompatible materials

<b>Materials to avoid</b>	None known.
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### 10.6. Hazardous decomposition products

<b>Hazardous decomposition products</b>	Carbon oxides.
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## 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.
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### Toxicological information on ingredients.

#### 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

**Species** Rat

## Astonish Germ Kill Disinfectant & Cleaner with Natural Pine Oil.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Toxicity** Normal use of product is not expected to pose a risk to the environment.

#### Ecological information on ingredients.

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

##### Acute aquatic toxicity

<b>LE(C)<sub>50</sub></b>	0.01 < L(E)C <sub>50</sub> ≤ 0.1
<b>M factor (Acute)</b>	10
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 1.7 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 0.03 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 96 hours: 0.06 mg/l, Selenastrum capricornutum
<b>Acute toxicity - microorganisms</b>	EC <sub>20</sub> , 0.5 hour: 10 mg/l, Activated sludge

##### Chronic aquatic toxicity

<b>M factor (Chronic)</b>	1
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#### 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.

#### 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. Do not allow large amounts to enter septic tanks and other such sewerage installations. Dispose of contaminated packaging in the same way as the product itself. Non-contaminated packages may be recycled.

### SECTION 14: Transport information

## Astonish Germ Kill Disinfectant & Cleaner with Natural Pine Oil.

**General** Not regulated.

### 14.1. UN number

Not applicable.

### 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.

EC<sub>50</sub>: 50% of maximal Effective Concentration.

ECHA: European Chemicals Agency

GHS: Globally Harmonized System.

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).

PBT: Persistent, Bioaccumulative and Toxic substance.

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006.

vPvB: Very Persistent and Very Bioaccumulative.

## Astonish Germ Kill Disinfectant & Cleaner with Natural Pine Oil.

<b>General information</b>	<p>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.</p> <p>Any animal testing information or data listed in this safety data sheet is historic published data within the public domain. There is a requirement to declare this information if it is known and this does not impact our cruelty free status. The London Oil Refining Company Ltd does not commission animal testing.</p>
<b>Revision comments</b>	Product name change. Revised formulation. Product Number and Revision Numbers restarted for new formulation
<b>Issued by</b>	The London Oil Refining Company Ltd
<b>Revision date</b>	02/02/2021
<b>Revision</b>	1.1
<b>Supersedes date</b>	26/05/2020
<b>SDS number</b>	4956
<b>Hazard statements in full</b>	<p>H302 Harmful if swallowed.</p> <p>H314 Causes severe skin burns and eye damage.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H373 May cause damage to organs (Respiratory tract) through prolonged or repeated exposure.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H412 Harmful to aquatic life with long lasting effects.</p>