



SAFETY DATA SHEET

Astonish Zesty Lemon Concentrated Disinfectant

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

1.1. Product identifier

Product name	Astonish Zesty Lemon Concentrated Disinfectant
Product number	923001
Internal identification	9230F3V1

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

Identified uses	Disinfecting surfaces around the home. Effective against bacterial and enveloped viruses.
Uses advised against	Do not use for personal cleansing. Avoid direct contact with pets.

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, UK Tel: +44 1274 767440 (8am-4pm Mon-Fri) 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 (8am-4pm Mon-Fri)
www.astonishcleaners.eu

Contact person	info@astonish.co.uk info@astonishcleaners.eu
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Manufacturer	As supplier.
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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, 7 days a week); Website 111.nhs.uk or a doctor.
	ROI - Emergency Telephone: +353 768 885288 (8am-4pm Mon-Fri) Poisons Information Centre of Ireland (ROI): + 353 (1) 809 2166 (8am-10pm 7 days a week)


SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
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Health hazards	Skin Irrit. 2 - H315 Eye Dam. 1 - H318
Environmental hazards	Aquatic Chronic 3 - H412
2.2. Label elements	
Hazard pictograms	
	
Signal word	Danger
Hazard statements	H315 Causes skin irritation. H318 Causes serious eye damage. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P103 Read label before use. P264 Wash hands thoroughly after handling. P264 Wash contaminated skin thoroughly after handling. P273 Avoid release to the environment. P280 Wear protective clothing, gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P305+P351+P338+P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON Centre or doctor/physician. P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention.
Contains	Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides, Undecanol, branched and linear, ethoxylated (>5-15 EO)
Additional Labelling	Irish PCS100225
Biocide Labelling	Contains active substance: Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides
Detergent labelling	< 5% cationic surfactants, < 5% disinfectants, < 5% non-ionic surfactants, < 5% perfumes, Contains d-Limonene, citral, dl-Citronellol, Hexyl cinnamal, Geraniol, Butylphenyl methylpropional

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ethanol		1-5%
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX
Classification		
Flam. Liq. 2 - H225		
Eye Irrit. 2 - H319		

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Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides 1-5%		
CAS number: 68424-85-1	EC number: 270-325-2	REACH registration number: 01-2119965180-41-XXXX
M factor (Acute) = 10	M factor (Chronic) = 1	
Classification Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410		
Undecanol, branched and linear, ethoxylated (>5-15 EO) 1-5%		
CAS number: 68439-46-3		
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318		
Citric Acid Monohydrate <1%		
CAS number: 5949-29-1	EC number: 201-069-1	REACH registration number: 01-2119457026-42-XXXX
Classification Eye Irrit. 2 - H319		
methanol <1%		
CAS number: 67-56-1	EC number: 200-659-6	REACH registration number: 01-2119433307-44-XXXX
Classification Flam. Liq. 2 - H225 Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 STOT SE 1 - H370		

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d-Limonene <1%		
CAS number: 5989-27-5	EC number: 227-813-5	REACH registration number: 01-2119529223-47-XXXX
M factor (Chronic) = 1		
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Asp. Tox. 1 - H304 Aquatic Chronic 1 - H410		
Citral <1%		
CAS number: 5392-40-5	EC number: 226-394-6	REACH registration number: 01-2119462829-23-XXXX
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317		
Hexyl cinnamal <1%		
CAS number: 101-86-0	EC number: 202-983-3	REACH registration number: 01-2119533092-50-XXXX
M factor (Acute) = 1		
Classification Skin Sens. 1B - H317 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		
Geraniol <1%		
CAS number: 106-24-1	EC number: 203-377-1	REACH registration number: 01-2119552430-49-XXXX
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317		

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Butylphenyl methylpropional		<1%
CAS number: 80-54-6	EC number: 201-289-8	REACH registration number: 01-2119485965-18-XXXX
Classification		
Acute Tox. 4 - H302		
Skin Irrit. 2 - H315		
Skin Sens. 1 - H317		
Repr. 1B - H360		
Aquatic Chronic 2 - H411		
Sodium Hydroxide		<1%
CAS number: 1310-73-2	EC number: 215-185-5	REACH registration number: 01-2119457892-27-XXXX
Classification		
Met. Corr. 1 - H290		
Skin Corr. 1A - H314		

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

Inhalation	Remove exposure and give water to drink if mouth irritation experienced. Seek medical advice if recovery not rapid.
Ingestion	Drink water. If symptoms persist seek medical advice.
Skin contact	Wash skin thoroughly with soap and water. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.
Eye contact	Do not rub eye. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.

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

Inhalation	Possible mild irritation of breathing passage and possible mouth irritation.
Ingestion	Possible mild stomach upset and mild soreness of mouth.
Skin contact	Causes skin irritation.
Eye contact	Causes serious eye damage.

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

Notes for the doctor	No data available
Specific treatments	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

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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. For personal protection, see Section 8.

6.2. Environmental precautions

Environmental precautions Product is intended to be rinsed away to sewer after use. For bigger spillages non-household spillages prevent entry into sewer or drains.

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. 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 contact with skin and eyes.

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) Disinfecting surfaces around the home.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Ethanol

Short-term exposure limit (15-minute): ELV (IE) 1000 ppm

methanol

Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³

Long-term exposure limit (8-hour TWA): ELV (IE) 200 ppm 260 mg/m³

Geraniol

Long-term exposure limit (8-hour TWA): DNEL 161.6 mg/m³ Inhalation

Long-term exposure limit (8-hour TWA): DNEL 12.5 mg/kg Dermal

Butylphenyl methylpropional

Long-term exposure limit (8-hour TWA): DNEL 0.44 mg/cm³ Inhalation

Short-term exposure limit (15-minute): DNEL 0.41 mg/cm² Dermal

Long-term exposure limit (8-hour TWA): DNEL 2.075 mg/kg Dermal

Sodium Hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³

WEL = Workplace Exposure Limit.

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Ethanol (CAS: 64-17-5)

DNEL	Workers - Dermal; Long term : 343 mg/kg
	Workers - Inhalation; : 950 mg/m ³
	Consumer - Inhalation; local effects: 950 mg/m ³
	Consumer - Dermal; Long term : 206 mg/kg
	Consumer - Inhalation; : 114 mg/m ³
	Consumer - Oral; Long term : 87 mg/kg
PNEC	- Fresh water; 0.96 mg/l
	- marine water; 0.79 mg/l
	- Sediment (Freshwater); 3.6 mg/kg
	- Soil; 0.63 mg/kg

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

PNEC	- Fresh water; 0.44 mg/l
	- Sediment (Freshwater); 3.46 mg/kg
	- Sediment (Marinewater); 34.6 mg/kg
	- marine water; 0.044 mg/l
	- STP; >1000 mg/l
- Soil; 33.1 mg/kg	

methanol (CAS: 67-56-1)

DNEL	Workers - Dermal; Short term systemic effects: 40 mg/kg
	Workers - Inhalation; Short term systemic effects: 260 mg/m ³
	Workers - Inhalation; Short term local effects: 260 mg/m ³
	Workers - Dermal; Long term systemic effects: 40 mg/kg
	Workers - Inhalation; Long term systemic effects: 260 mg/m ³
	Workers - Inhalation; Long term local effects: 260 mg/m ³
	Consumer - Dermal; Short term systemic effects: 8 mg/kg
	Consumer - Inhalation; Short term systemic effects: 50 mg/m ³
	Consumer - Oral; Short term systemic effects: 8 mg/kg
	Consumer - Inhalation; Long term local effects: 50 mg/m ³
	Consumer - Oral; Long term systemic effects: 8 mg/kg
	Consumer - Inhalation; Long term systemic effects: 50 mg/m ³
	Consumer - Dermal; Long term systemic effects: 8 mg/kg
	Consumer - Inhalation; Short term local effects: 50 mg/m ³
PNEC	- Fresh water; 154 mg/l
	- marine water; 15.4 mg/l
	- Sediment; 570.4 mg/kg
	- Soil; 23.5 mg/kg
	- STP; 100 mg/l
- Intermittent release; 1540 mg/l	

8.2. Exposure controls

Eye/face protection	Wear eye protection. Avoid contact with face.
Hand protection	Wear protective gloves.
Environmental exposure controls	This product does not pose a hazard in normal use when following the usage instructions.

SECTION 9: Physical and chemical properties

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9.1. Information on basic physical and chemical properties

Appearance	Clear Yellow Liquid
Colour	Yellow.
Odour	Lemon/Citrus
Odour threshold	Not known.
pH	pH (concentrated solution): 5.8 - 7.2
Melting point	Not known.
Initial boiling point and range	Not measured (>100°C)
Flash point	Not determined.
Evaporation rate	Not known.
Evaporation factor	Not known.
Flammability (solid, gas)	Does not ignite.
Upper/lower flammability or explosive limits	Does not ignite.
Other flammability	Not relevant.
Vapour pressure	Not determined.
Vapour density	> 1 (Air=1)
Relative density	0.990 - 1.000 @ 20°C
Bulk density	Not relevant.
Solubility(ies)	Soluble in water
Partition coefficient	Not known.
Auto-ignition temperature	Not known.
Decomposition Temperature	Not available.
Viscosity	Not determined.
Explosive properties	None
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not applicable.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity No reactivity hazards expected.

10.2. Chemical stability

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

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Possibility of hazardous reactions None under normal conditions.

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Materials to avoid None known.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects This mixture has not been tested. Based on the available data of the ingredients the classification criteria are not met.

Acute toxicity - oral

ATE oral (mg/kg) 10,973.08

Acute toxicity - dermal

ATE dermal (mg/kg) 200,000.0

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 2,000.0

SECTION 12: Ecological information

12.1. Toxicity

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

12.2. Persistence and degradability

Persistence and degradability Contains detergents that satisfy the biodegradation requirements of directive 648/2004/EC. No other relevant information is available.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is not expected.

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 None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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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.

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

National regulations For Great Britain after the end of the transitional period, the EU Detergents Regulation - has been amended by the Detergents EU Exit Statutory Instruments (SIs), that is:

the Detergents (Amendment) (EU Exit) Regulations 2019 (S.I. 2019/672)
the Detergents (Safeguarding) (Amendment) (EU Exit) Regulations 2019 (S.I. 2019/671)
the Detergents (Amendment) (EU Exit) Regulations 2020 (S.I. 2020/1617)

For Great Britain after the end of the transitional period, the EU Biocides Regulations - has been amended by:

the Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 (CMGO Regs 2019)
the Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020 (CMGO Regs 2020)

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 31 March 2004 on detergents (as amended).
Biocidal Products Regulation (528/2012/EC)

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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	<p>ATE: Acute Toxicity Estimate. CAS: Chemical Abstracts Service. DNEL: Derived No Effect Level. ECHA: European Chemicals Agency GHS: Globally Harmonized System. PBT: Persistent, Bioaccumulative and Toxic substance. PNEC: Predicted No Effect Concentration. REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006. vPvB: Very Persistent and Very Bioaccumulative.</p>
General information	<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>
Revision comments	Revised formulation. Updated Supplier Information. Updated Regulatory Information In Section 15
Issued by	The London Oil Refining Company Ltd
Revision date	08/07/2021
Revision	3.1
Supersedes date	03/11/2020
SDS number	5466
Hazard statements in full	<p>H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H311 Toxic in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H360 May damage fertility or the unborn child. H370 Causes damage to organs . H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.</p>