



## SAFETY DATA SHEET

### Astonish All in 1 Dishwasher Tablets

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

##### 1.1. Product identifier

**Product name** Astonish All in 1 Dishwasher Tablets  
**Product number** 2170  
**Internal identification** 2170F2V3

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

**Identified uses** Automatic dishwashing tabs  
**Uses advised against** Only to used in an automatic dishwasher. Only for use with dishwasher safe items.

##### 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  
 + 44 1274 767440  
 + 44 1274 726285  
 www.astonishcleaners.com

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

##### 1.4. Emergency telephone number

**Emergency telephone** UK - Emergency Telephone (01274) 767440 (8am-4pm Mon-Fri).  
 ROI - Poisons Information Centre of Ireland: 01 809 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  
**Health hazards** Eye Irrit. 2 - H319  
**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Hazard pictograms



**Signal word** Warning

**Hazard statements** EUH208 Contains Amylase, subtilisin. May produce an allergic reaction.  
 H319 Causes serious eye irritation.

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<b>Precautionary statements</b>	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children.</p> <p>P103 Read label before use.</p> <p>P264 Wash hands thoroughly after handling.</p> <p>P280 Wear protective gloves and eye protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p>
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**Additional Labelling** None

**Detergent labelling** 5 - < 15% oxygen-based bleaching agents, < 5% enzymes, < 5% non-ionic surfactants, < 5% perfumes, < 5% polycarboxylates, Contains d-Limonene

### 2.3. Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Sodium Carbonate</b>	<b>10-30%</b>
CAS number: 497-19-8	EC number: 207-838-8
	REACH registration number: 01-2119485498-19-0000
<b>Classification</b>	
Eye Irrit. 2 - H319	
<b>Sodium carbonate peroxyhydrate</b>	<b>5-10%</b>
CAS number: 15630-89-4	EC number: 239-707-6
	REACH registration number: 01-2119457268-30-0000
<b>Classification</b>	
Ox. Sol. 3 - H272	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	
<b>Citric Acid Monohydrate</b>	<b>5-10%</b>
CAS number: 5949-29-1	EC number: 201-069-1
<b>Classification</b>	
Eye Irrit. 2 - H319	

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<b>Disodium disilicate</b> <span style="float: right;">5-10%</span>	
CAS number: —	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Acute Tox. 4 - H302	Xn; R22. Xi; R36/37/38
Acute Tox. 4 - H312	
Acute Tox. 4 - H332	
Skin Irrit. 2 - H315	
Eye Irrit. 2 - H319	
STOT SE 3 - H335	
<b>Alcohol, C12-18 Ethoxylated propoxylated</b> <span style="float: right;">1-5%</span>	
CAS number: 69227-21-0	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Eye Irrit. 2 - H319	Xi; R36
<b>Cellulose Gum</b> <span style="float: right;">1-5%</span>	
CAS number: —	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi; R36/37/38. R43
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
<b>subtilisin</b> <span style="float: right;">&lt;1%</span>	
CAS number: 9014-01-1	EC number: 232-752-2
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Skin Irrit. 2 - H315	Xi; R37/38, R41. R42
Eye Dam. 1 - H318	
Resp. Sens. 1 - H334	
STOT SE 3 - H335	
<b>Amylase</b> <span style="float: right;">&lt;1%</span>	
CAS number: —	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Resp. Sens. 1 - H334	R42

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<b>d-Limonene</b>	<b>&lt;1%</b>
CAS number: 5989-27-5	EC number: 227-813-5
M factor (Chronic) = 1	
<b>Classification</b>	
Flam. Liq. 3 - H226	
Skin Irrit. 2 - H315	
Skin Sens. 1B - H317	
Asp. Tox. 1 - H304	
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

<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>	Wash skin thoroughly with soap and water. Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.
<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.

#### 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>	Causes skin irritation.
<b>Eye contact</b>	Causes eye irritation.

#### 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. Oxygen released in thermal decomposition may support combustion.

#### 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

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

### 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. Avoid dust formation. Ensure adequate ventilation. Keep away from heat and sources of ignition. Keep away from incompatible products. Use only clean and dry utensils. Never return unused material to storage receptacle. Keep away from water.

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

**Storage precautions** Store in ambient conditions. Keep out of the reach of children. Keep away from heat. Keep away from incompatible products. Keep away from heat/sparks/open flames/hot surfaces - no smoking. Keep container tightly closed. Keep container in a well-ventilated place. Store in a dry place.

### 7.3. Specific end use(s)

**Specific end use(s)** Automatic dishwashing tablets

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **Sodium Carbonate**

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

##### **Sodium carbonate peroxyhydrate**

Long-term exposure limit (8-hour TWA): 5 mg/m<sup>3</sup>

#### 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

#### Sodium carbonate peroxyhydrate (CAS: 15630-89-4)

##### **PNEC**

- Fresh water; 35 µg/l

### 8.2. Exposure controls

**Eye/face protection** Wear eye protection.

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<b>Hand protection</b>	Wear protective gloves.
<b>Environmental exposure controls</b>	This product does not pose a hazard in normal use when following the usage instructions.

### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Rectangular tablet blue (top) and white (bottom)
<b>Colour</b>	White/Blue Layers
<b>Odour</b>	Lemon
<b>Odour threshold</b>	Not known.
<b>pH</b>	pH (diluted solution): 9.0 - 11.4 (1% aqueous)
<b>Melting point</b>	Not known.
<b>Initial boiling point and range</b>	Not determined.
<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>	Not available.
<b>Relative density</b>	Not available.
<b>Bulk density</b>	Not available.
<b>Solubility(ies)</b>	Soluble in water
<b>Partition coefficient</b>	Not determined.
<b>Auto-ignition temperature</b>	Not known.
<b>Decomposition Temperature</b>	Not available.
<b>Viscosity</b>	Not relevant.
<b>Explosive properties</b>	None
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not determined.

#### 9.2. Other information

<b>Other information</b>	Available oxygen (blue part and white part only) 1.0-1.3% Tablet Weight = 20.0 - 20.5 g
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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

**Stability** Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

**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. Avoid water, bases, heavy metal salts, reducing agents, organic materials, flammable materials and combustible materials.

### 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)** 6,740.55

#### Acute toxicity - dermal

**ATE dermal (mg/kg)** 22,000.0

#### Acute toxicity - inhalation

**ATE inhalation (dusts/mists mg/l)** 30.0

## 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.

### 12.2. Persistence and degradability

**Persistence and degradability** The product is degraded completely by hydrolysis.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No bio-accumulative potential noted for any component.

**Partition coefficient** Not determined.

### 12.4. Mobility in soil

**Mobility** No concerns- the product will dissociate into naturally occurring ions whose levels are regulated by living organisms.

### 12.5. Results of PBT and vPvB assessment

**Results of PBT and vPvB assessment** This product does not contain any substances classified as PBT or vPvB.

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### 12.6. Other adverse effects

Other adverse effects            None known.

### 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.

#### 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.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.



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### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ATE: Acute Toxicity Estimate.  CAS: Chemical Abstracts Service.  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>
<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>	Updated using updated raw material information received from suppliers. Revised Internal Identification. Updated pH specification
<b>Issued by</b>	The London Oil Refining Company Ltd
<b>Revision date</b>	28/04/2020
<b>Revision</b>	2.3
<b>Supersedes date</b>	14/09/2017
<b>SDS number</b>	5012
<b>Hazard statements in full</b>	<p>H226 Flammable liquid and vapour.  H272 May intensify fire; oxidiser.  H302 Harmful if swallowed.  H304 May be fatal if swallowed and enters airways.  H312 Harmful in contact with skin.  H315 Causes skin irritation.  H317 May cause an allergic skin reaction.  H318 Causes serious eye damage.  H319 Causes serious eye irritation.  H332 Harmful if inhaled.  H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  H335 May cause respiratory irritation.  H410 Very toxic to aquatic life with long lasting effects.  EUH208 Contains Amylase, subtilisin. May produce an allergic reaction.</p>