



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
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Contact person	info@astonish.co.uk
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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
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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
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Hazard statements	EUH208 Contains Amylase, subtilisin. May produce an allergic reaction. H319 Causes serious eye irritation.
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Precautionary statements	<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

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

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

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d-Limonene	<1%
CAS number: 5989-27-5	EC number: 227-813-5
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	

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	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

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 eye irritation.

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

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/m³

Sodium carbonate peroxyhydrate

Long-term exposure limit (8-hour TWA): 5 mg/m³

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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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

9.1. Information on basic physical and chemical properties

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

9.2. Other information

Other information	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

Reactivity	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

Abbreviations and acronyms used in the safety data sheet	<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>
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	Updated using updated raw material information received from suppliers. Revised Internal Identification. Updated pH specification
Issued by	The London Oil Refining Company Ltd
Revision date	28/04/2020
Revision	2.3
Supersedes date	14/09/2017
SDS number	5012
Hazard statements in full	<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>