



SAFETY DATA SHEET

Astonish Premium Edition Starch Spray

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

1.1. Product identifier

Product name Astonish Premium Edition Starch Spray
Product number 693001
Internal identification F1V1

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

Identified uses Aiding ironing and stiffening shirt collars and cuffs

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

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 Not Classified

2.2. Label elements

Hazard statements NC Not Classified
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.

Additional Labelling

Detergent labelling < 5% perfumes, Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one

2.3. Other hazards

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Ethanol		5-10%
CAS number: 64-17-5		EC number: 200-578-6
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	F; R11. Xi; R36	
Eye Irrit. 2 - H319		
methanol		<1%
CAS number: 67-56-1		EC number: 200-659-6
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 2 - H225	F; R11. T; R23/24/25, R39/23/24/25	
Acute Tox. 3 - H301		
Acute Tox. 3 - H311		
Acute Tox. 3 - H331		
STOT SE 1 - H370		
2-methylisothiazol-3(2H)-one		<1%
CAS number: 2682-20-4		EC number: 220-239-6
M factor (Acute) = 1		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 3 - H301	T; R23. Xn; R22. C; R34. N; R50. R43	
Acute Tox. 3 - H311		
Acute Tox. 2 - H330		
Skin Corr. 1B - H314		
Skin Sens. 1 - H317		
STOT SE 3 - H335		
Aquatic Acute 1 - H400		
Aquatic Chronic 2 - H411		
1,2-benzisothiazol-3(2H)-one		<1%
CAS number: 2634-33-5		EC number: 220-120-9
M factor (Acute) = 1		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	Xn; R22. Xi; R38, R41. N; R50. R43	
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Aquatic Acute 1 - H400		
Aquatic Chronic 2 - H411		

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Linalool <1%	
CAS number: 78-70-6	EC number: 201-134-4
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi; R36/38
Geraniol <1%	
CAS number: 106-24-1	EC number: 203-377-1
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317	Classification (67/548/EEC or 1999/45/EC) Xi; R38, R41. R43
Butylphenyl methylpropional <1%	
CAS number: 80-54-6	EC number: 201-289-8
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Repr. 2 - H361 Aquatic Chronic 2 - H411	Classification (67/548/EEC or 1999/45/EC) Xn; R22. Repr. Cat. 3 R62. N; R51/53. R43
1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one <1%	
CAS number: 54464-57-2	EC number: 259-174-3
M factor (Chronic) = 1	
Classification Skin Irrit. 2 - H315 Skin Sens. 1B - H317 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) Xi; R38. N; R51/53. R43
Acetyl cedrene <1%	
CAS number: 32388-55-9	EC number: 251-020-3
M factor (Chronic) = 1	
Classification Skin Sens. 1B - H317 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N; R50/53. R43

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2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol		<1%
CAS number: 28219-61-6	EC number: 248-908-8	
M factor (Chronic) = 1		
Classification	Classification (67/548/EEC or 1999/45/EC)	
Skin Irrit. 2 - H315	Xi; R38. N; R50/53	
Eye Irrit. 2 - H319		
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	Rinse affected area with water.
Eye contact	Rinse thoroughly with water for several minutes. If symptoms persist seek medical advice.

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	Possible mild transient irritation of skin.
Eye contact	Possible mild irritation, redness and soreness.

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.

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

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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

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.

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) Aiding ironing and stiffening shirt collars and cuffs

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

Linalool

Long-term exposure limit (8-hour TWA): DNEL 2.5 mg/kg Dermal

Long-term exposure limit (8-hour TWA): DNEL 2.8 mg/m³ Inhalation

Long-term exposure limit (8-hour TWA): DNEL 15 mg/cm³ Dermal

Short-term exposure limit (15-minute): DNEL 15 mg/cm³ Dermal

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

1-(1,2,3,4,5,6,7,8-Octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one

Long-term exposure limit (8-hour TWA): DNEL 0.1011 mg/cm³ Dermal

Long-term exposure limit (8-hour TWA): DNEL 1.76 mg/m³ Inhalation

Long-term exposure limit (8-hour TWA): DNEL 1.73 mg/kg Dermal

Acetyl cedrene

Long-term exposure limit (8-hour TWA): DNEL 1.175 mg/m³ Inhalation

Long-term exposure limit (8-hour TWA): DNEL 0.333 mg/kg Dermal

2-Ethyl-4-(2,2,3-trimethyl-3-cyclopenten-1-yl)-2-buten-1-ol

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Long-term exposure limit (8-hour TWA): DNEL 0.5 mg/kg Oral
 Short-term exposure limit (15-minute): DNEL 3 mg/kg Oral
 Short-term exposure limit (15-minute): DNEL 6 mg/kg Dermal
 Long-term exposure limit (8-hour TWA): DNEL 1.4 mg/kg Dermal
 Short-term exposure limit (15-minute): DNEL 7 mg/m³ Inhalation
 Long-term exposure limit (8-hour TWA): DNEL 7 mg/m³ Inhalation
 WEL = Workplace Exposure Limit

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

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

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

Appearance Hazy thin liquid
Colour White.

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Odour	Floral/Alcoholic
Odour threshold	Not known.
pH	pH (concentrated solution): 5.5 - 8.5
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	0.992 - 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 measured
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

Possibility of hazardous reactions None under normal conditions.

10.4. Conditions to avoid

Conditions to avoid None known.

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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) 26,219.19

Acute toxicity - dermal

ATE dermal (mg/kg) 78,657.58

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 786.58

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 Contains detergents that satisfy the bio-degradation requirements of directive 648/2004/EC.

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

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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.

SECTION 16: Other information

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

ATE: Acute Toxicity Estimate.
CAS: Chemical Abstracts Service.
DNEL: Derived No Effect Level.
PBT: Persistent, Bioaccumulative and Toxic substance.
PNEC: Predicted No Effect Concentration.
vPvB: Very Persistent and Very Bioaccumulative.

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

This is first issue.

Issued by

The London Oil Refining Company Ltd

Revision date

20/06/2017

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Revision	1.1
SDS number	5192
Risk phrases in full	<p>R11 Highly flammable. R22 Harmful if swallowed. R23 Toxic by inhalation. R23/24/25 Toxic by inhalation, in contact with skin and if swallowed. R34 Causes burns. R36 Irritating to eyes. R36/38 Irritating to eyes and skin. R38 Irritating to skin. R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R50 Very toxic to aquatic organisms. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 Possible risk of impaired fertility. R63 Possible risk of harm to the unborn child.</p>
Hazard statements in full	<p>H225 Highly flammable liquid and vapour. H301 Toxic if swallowed. H302 Harmful if swallowed. 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. H330 Fatal if inhaled. H331 Toxic if inhaled. H335 May cause respiratory irritation. H361 Suspected of damaging 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.</p>