



## SAFETY DATA SHEET

### Astonish Anti-fog Glass Cleaner

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

##### 1.1. Product identifier

**Product name** Astonish Anti-fog Glass Cleaner

**Product number** 153101

**Internal identification** F2V2

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

**Identified uses** Cleaning windows & glass providing an anti-fog effect.

##### 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  
www.astonishcleaners.com  
(01274) 767440 (office hours only)  
(01274) 726285

**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** P102 Keep out of reach of children.  
P103 Read label before use.

##### Additional Labelling

**Detergent labelling** Contains 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one

##### 2.3. Other hazards

None



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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Isopropanol</b> <span style="float: right;"><b>5-10%</b></span>		
CAS number: 67-63-0	EC number: 200-661-7	REACH registration number: 01-2119457558-25-0000
<b>Classification</b> Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336		<b>Classification (67/548/EEC or 1999/45/EC)</b> F; R11. Xi; R36. R67
<b>2-methylisothiazol-3(2H)-one</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 2682-20-4	EC number: 220-239-6	
M factor (Acute) = 1		
<b>Classification</b> Acute Tox. 3 - H301 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		<b>Classification (67/548/EEC or 1999/45/EC)</b> T; R23. Xn; R22. C; R34. N; R50. R43
<b>1,2-benzisothiazol-3(2H)-one</b> <span style="float: right;"><b>&lt;1%</b></span>		
CAS number: 2634-33-5	EC number: 220-120-9	
M factor (Acute) = 1		
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411		<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn; R22. Xi; R38, R41. N; R50. R43

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>	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



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<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** 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** None

## **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)** Cleaning windows & glass providing an anti-fog effect.

## **SECTION 8: Exposure Controls/personal protection**

### **8.1. Control parameters**

#### **Occupational exposure limits**

**Isopropanol**



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Long-term exposure limit (8-hour TWA): EH40 WEL, WEL 400 ppm 999 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): EH40 WEL 500 ppm 1,250 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

### 8.2. Exposure controls

**Environmental exposure controls** This product does not pose a hazard in normal use. Care should be taken not to inhale spray. No personal protective equipment is necessary.

## SECTION 9: Physical and Chemical Properties

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

<b>Appearance</b>	Clear pale green liquid
<b>Colour</b>	Pale Green
<b>Odour</b>	Mild Alcoholic
<b>Odour threshold</b>	Not known.
<b>pH</b>	pH (concentrated solution): 5.5 - 8.5
<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. Not flammable
<b>Upper/lower flammability or explosive limits</b>	Does not ignite.
<b>Other flammability</b>	Not relevant.
<b>Vapour pressure</b>	Not available.
<b>Vapour density</b>	> 1 (Air=1)
<b>Relative density</b>	0.900 - 0.996 @ 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.
<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 determined.

### 9.2. Other information

**Other information** None.



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### 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.

#### 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.

#### Isopropanol

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,820.0

**Species** Rat

**ATE oral (mg/kg)** 5,820.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 12,800.0

**Species** Rabbit

**ATE dermal (mg/kg)** 12,800.0

### 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.

#### Isopropanol

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)



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<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 13299 mg/l, Daphnia magna
<b>Acute toxicity - aquatic plants</b>	EC <sub>50</sub> , 72 hours: 1.000 mg/l, Desmodesmus subspicatus
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , : >1000 mg/l, Activated sludge

### 12.2. Persistence and degradability

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

### Isopropanol

<b>Biodegradation</b>	- Degradation 95: 21 days
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### 12.3. Bioaccumulative potential

<b>Bioaccumulative potential</b>	Not determined.
<b>Partition coefficient</b>	Not known.

### 12.4. Mobility in soil

<b>Mobility</b>	The components of the mixture are readily absorbed into soil and are mobile in water environment.
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### 12.5. Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	No data available.
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### 12.6. Other adverse effects

<b>Other adverse effects</b>	Not determined.
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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>General information</b>	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.
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## SECTION 14: Transport information

<b>General</b>	Not regulated.
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### 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



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**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.  
EC<sub>50</sub>: 50% of maximal Effective Concentration.  
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.  
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** Updated Supplier Information

**Issued by** The London Oil Refining Company Ltd

**Revision date** 22/09/2017

**Revision** 2.2

**Supersedes date** 25/08/2016

**SDS number** 5011

**Risk phrases in full** R11 Highly flammable.  
R22 Harmful if swallowed.  
R23 Toxic by inhalation.  
R34 Causes burns.  
R36 Irritating to eyes.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.  
R50 Very toxic to aquatic organisms.  
R67 Vapours may cause drowsiness and dizziness.



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### Hazard statements in full

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.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.