



## SAFETY DATA SHEET

### Astonish Mould & Mildew Blaster

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

##### 1.1. Product identifier

**Product name** Astonish Mould & Mildew Blaster  
**Product number** 995501  
**Internal identification** F8V1

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

**Identified uses** Removal of mould and mildew stains on a household scale

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

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

##### 1.4. Emergency telephone number

**Emergency telephone** (01274) 767440 (office hours only)

**National emergency telephone number** 0870 243 2241 - United Kingdom Poisons Information Centre

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Not Classified  
**Health hazards** Skin Irrit. 2 - H315 Eye Irrit. 2 - H319  
**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Pictogram



**Signal word** Warning

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<b>Hazard statements</b>	H315 Causes skin irritation. H319 Causes serious eye irritation. EUH208 Contains Mixture of tetrasodium phosphonoethane-1,2-dicarboxylate and Hexasodium phosphonobutane-1,2,3,4-tetracarboxylate. May produce an allergic reaction.
<b>Precautionary statements</b>	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. P280 Wear protective gloves, eye and face protection. P302+P352 IF ON SKIN: Wash with plenty of soap and water. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention.
<b>Supplemental label information</b>	EUH031 Contact with acids liberates toxic gas.
<b>Additional Labelling</b>	
<b>Detergent labelling</b>	< 5% anionic surfactants, < 5% chlorine-based bleaching agents, < 5% non-ionic surfactants

### 2.3. Other hazards

None

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>sodium hypochlorite</b>	<b>1-5%</b>
CAS number: 7681-52-9	EC number: 231-668-3
	REACH registration number: 01-2119488154-34-0000
M factor (Acute) = 10	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Met. Corr. 1 - H290	C; R34. N; R50. R31
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
Aquatic Acute 1 - H400	
<b>Sodium Hydroxide</b>	<b>&lt;1%</b>
CAS number: 1310-73-2	EC number: 215-185-5
	REACH registration number: 01-2119457892-07-0000
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Met. Corr. 1 - H290	C; R35
Skin Corr. 1A - H314	

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<b>Amine, coco alkyldimethyl, N-oxides</b>	<b>&lt;1%</b>
CAS number: 61788-90-7	EC number: 263-016-9
M factor (Acute) = 1	
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn; R22. Xi; R41, R38. N; R50, R51/53
<b>Mixture of tetrasodium phosphonoethane-1,2-dicarboxylate and Hexasodium phosphonobutane-1,2,3,4-tetracarboxylate</b>	<b>&lt;1%</b>
CAS number: 143239-08-1	EC number: 410-800-5
<b>Classification</b> Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> N; R51/53. 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>	Wash skin thoroughly with soap and water. Remove contaminated clothing. 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.

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### 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.

**Hazardous combustion products** Thermal decomposition or combustion products may include the following substances: Chlorine Gas. Hydrogen chloride (HCl). Chlorine Oxides.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Use protection suitable to cause of fire.

**Special protective equipment for firefighters** Wear breathing apparatus suitable for chlorine gas

## 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** 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 breathing spray. Point spray away from face. Avoid contact with skin and eyes. Do not mix with other products. May release dangerous gas (chlorine).

**Incompatible Materials** Acids

### 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)** Removal of mould and mildew stains on a household scale Observe precautions in section 7.1.

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **sodium hypochlorite**

Short-term exposure limit (15-minute): EU ELV 0.5 ppm 1.5 mg/m<sup>3</sup> Chlorine

Short-term exposure limit (15-minute): EH40 WEL 0.5 ppm 1.5 mg/m<sup>3</sup> Chlorine

##### **Sodium Hydroxide**

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

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### Amine, coco alkyldimethyl, N-oxides (CAS: 61788-90-7)

<b>DNEL</b>	Workers - Dermal; systemic effects: 11 mg/kg/day Workers - Inhalation; systemic effects: 15.5 mg/m <sup>3</sup> Workers - Dermal; local effects: 0.27 % General population - Dermal; systemic effects: 5.5 mg/kg/day General population - Inhalation; systemic effects: 3.8 mg/m <sup>3</sup> General population - Oral; systemic effects: 0.44 mg/kg/day
<b>PNEC</b>	- Fresh water; 0.0335 mg/l - Marine water; 0.00335 mg/l - Intermittent release; 0.0335 mg/l - Sediment (Freshwater); 5.24 mg/kg - Sediment (Marinewater); 0.524 mg/kg - Soil; 1.02 mg/kg - STP; 24 mg/kg

### Mixture of tetrasodium phosphonoethane-1,2-dicarboxylate and Hexasodium phosphonobutane-1,2,3,4-tetracarboxylate (CAS: 143239-08-1)

<b>DMEL</b>	- Inhalation; Long term local effects: 10 mg/m <sup>3</sup>
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#### 8.2. Exposure controls

<b>Eye/face protection</b>	Wear tight-fitting, chemical splash goggles or face shield.
<b>Hand protection</b>	Wear protective gloves made of the following material: Butyl rubber. Polyvinyl chloride (PVC). Chloroprene rubber.
<b>Respiratory protection</b>	Use in a well ventilated area. If this is not possible use a respirator with combination filter e.g. B-P2 or B-P3

### **SECTION 9: Physical and Chemical Properties**

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

<b>Appearance</b>	Clear thin liquid
<b>Colour</b>	Colourless to Pale Yellow
<b>Odour</b>	Chlorine Bleach
<b>Odour threshold</b>	Not known.
<b>pH</b>	pH (concentrated solution): 12.0 - 13.7
<b>Melting point</b>	Not known.
<b>Initial boiling point and range</b>	Not measured (>100°C)
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not measured.
<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 available.

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<b>Vapour density</b>	> 1 (Air=1)
<b>Relative density</b>	1.010 - 1.050 @ 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 determined.
<b>Explosive properties</b>	None
<b>Explosive under the influence of a flame</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Not applicable.

### 9.2. Other information

**Other information** None.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** Will react with acids to produce chlorine gas

### 10.2. Chemical stability

**Stability** Decomposes under normal conditions over a very long period. See Section 10.3 (Possibility of hazardous reactions) for further information.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Will produce chlorine when reacted with acids. Retail pack will produce such low volumes the risk to health is considered negligible.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, Chlorine gas will be liberated upon heating Avoid contact with acids, may produce toxic gas (chlorine).

### 10.5. Incompatible materials

**Materials to avoid** Avoid contact with acids, organic materials, hydrogen peroxide, metal salts, copper, nickel, iron and ammonia and ammonium compounds - Chlorine gas will be liberated upon contact.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Rapid and extreme decomposition may release acids of phosphorus, phosphorus oxides, carbon oxides, hydrogen chloride, chlorine and chlorine 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.

### Toxicological information on ingredients.

sodium hypochlorite

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### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 3,400.0

Species Mouse

ATE oral (mg/kg) 3,400.0

### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 2,000.0

Species Rabbit

### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 10.5

Species Rat

### Sodium Hydroxide

### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 2,000.0

Species Rat

## 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.

### Ecological information on ingredients.

#### sodium hypochlorite

### Acute aquatic toxicity

LE(C)<sub>50</sub> 0.01 < L(E)C<sub>50</sub> ≤ 0.1

M factor (Acute) 10

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 0.22 - 0.62 mg/l, Pimephales promelas

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 96 hours: 2.1 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC<sub>50</sub>, 24 hours: 28 mg/l, Desmodismus subspicatus

#### Sodium Hydroxide

### Acute aquatic toxicity

Acute toxicity - fish LC<sub>50</sub>, 96 hours: 125 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates EC<sub>50</sub>, 24 hours: 76 mg/l, Daphnia magna

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**Acute toxicity - microorganisms**                      EC<sub>50</sub>, 15 minute: 22 mg/l, Bacteria

Mixture of tetrasodium phosphonoethane-1,2-dicarboxylate and Hexasodium phosphonobutane-1,2,3,4-tetracarboxylate

**Acute aquatic toxicity**

**Acute toxicity - fish**                      LC<sub>50</sub>, 96 hours: >100 mg/l, Lepomis macrochirus (Bluegill)

**Acute toxicity - aquatic invertebrates**                      EC<sub>50</sub>, 48 hours: >1000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**                      EC<sub>50</sub>, 72 hours: 72 mg/l, Pseudokirchneriella subcapitata

**Acute toxicity - microorganisms**                      EC<sub>50</sub>, 3 hours: >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.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential**                      The product does not contain any substances expected to be bioaccumulating.

**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 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.



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### 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.  
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.  
EC<sub>50</sub>: 50% of maximal Effective Concentration.  
DMEL: Derived Minimal Effect Level.

#### **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**

Revised formulation.

#### **Issued by**

The London Oil Refining Company Ltd

#### **Revision date**

12/10/2018

#### **Revision**

8.1

#### **Supersedes date**

29/05/2018

#### **SDS number**

4916

## Astonish Mould & Mildew Blaster

### Risk phrases in full

R22 Harmful if swallowed.  
R31 Contact with acids liberates toxic gas.  
R34 Causes burns.  
R35 Causes severe burns.  
R38 Irritating to skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.  
R50 Very toxic to aquatic organisms.  
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### Hazard statements in full

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
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.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.  
EUH208 Contains Mixture of tetrasodium phosphonoethane-1,2-dicarboxylate and Hexasodium phosphonobutane-1,2,3,4-tetracarboxylate. May produce an allergic reaction.