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 F8V2

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

Astonish Mould & Mildew Blaster

Hazard statements
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.

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.
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.

Additional Labelling None

Detergent labelling < 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

sodium hypochlorite **1-5%**

CAS number: 7681-52-9 EC number: 231-668-3 REACH registration number: 01-2119488154-34-0000

M factor (Acute) = 10

Classification
Met. Corr. 1 - H290
Skin Corr. 1B - H314
Eye Dam. 1 - H318
STOT SE 3 - H335
Aquatic Acute 1 - H400

Classification (67/548/EEC or 1999/45/EC)
C; R34. N; R50. R31

Sodium Hydroxide **<1%**

CAS number: 1310-73-2 EC number: 215-185-5 REACH registration number: 01-2119457892-07-0000

Classification
Met. Corr. 1 - H290
Skin Corr. 1A - H314

Classification (67/548/EEC or 1999/45/EC)
C; R35

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Amine, coco alkyldimethyl, N-oxides		**<1%**
CAS number: 61788-90-7	EC number: 263-016-9	
M factor (Acute) = 1		

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 2 - H411	Xn; R22. Xi; R41, R38. N; R50, R51/53

Mixture of tetrasodium phosphonoethane-1,2-dicarboxylate and Hexasodium phosphonobutane-1,2,3,4-tetracarboxylate		**<1%**
CAS number: 143239-08-1	EC number: 410-800-5	

Classification	**Classification (67/548/EEC or 1999/45/EC)**
Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	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

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. 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 avaliable

Specific treatments 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/m³ Chlorine
Short-term exposure limit (15-minute): EH40 WEL 0.5 ppm 1.5 mg/m³ Chlorine

Sodium Hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³
WEL = Workplace Exposure Limit

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

DNEL	Workers - Dermal; systemic effects: 11 mg/kg/day Workers - Inhalation; systemic effects: 15.5 mg/m³ Workers - Dermal; local effects: 0.27 % General population - Dermal; systemic effects: 5.5 mg/kg/day General population - Inhalation; systemic effects: 3.8 mg/m³ General population - Oral; systemic effects: 0.44 mg/kg/day
PNEC	- 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)

DMEL	- Inhalation; Long term local effects: 10 mg/m³

8.2. Exposure controls

Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	Wear protective gloves made of the following material: Butyl rubber. Polyvinyl chloride (PVC). Chloroprene rubber.
Respiratory protection	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

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

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Vapour density	> 1 (Air=1)
Relative density	1.010 - 1.050 @ 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 determined.
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	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 avaliable 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_{50} mg/kg)	3,400.0
Species	Mouse
ATE oral (mg/kg)	3,400.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	2,000.0
Species	Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC_{50} vapours mg/l)	10.5
Species	Rat

Sodium Hydroxide

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	2,000.0
Species	Rat

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity The mixture has not been tested. Based on the avaliable data of the ingredients the classification criteria are not met.

Ecological information on ingredients.

sodium hypochlorite

Acute aquatic toxicity

$LE(C)_{50}$	0.01 < L(E)C50 ≤ 0.1
M factor (Acute)	10
Acute toxicity - fish	LC_{50}, 96 hours: 0.22 - 0.62 mg/l, Pimephales promelas
Acute toxicity - aquatic invertebrates	EC_{50}, 96 hours: 2.1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 24 hours: 28 mg/l, Desmodesmus subspicatus

Sodium Hydroxide

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: 125 mg/l, Freshwater fish
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hours: 76 mg/l, Daphnia magna

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Acute toxicity - microorganisms	EC_{50}, 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_{50}, 96 hours: >100 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 72 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC_{50}, 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable.

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_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.
EC_{50}: 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 classification.

Issued by The London Oil Refining Company Ltd

Revision date 24/01/2019

Revision 8.2

Supersedes date 12/10/2018

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.