



SAFETY DATA SHEET

Astonish Specialist Ultimate Limescale Remover

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

1.1. Product identifier

Product name	Astonish Specialist Ultimate Limescale Remover
Product number	694001
Internal identification	6940F2V2

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

Identified uses	Cleaning and Removing Limescale
Uses advised against	Avoid contact with natural stone or acid sensitive surfaces. Do not mix with Chlorine bleach.

1.3. Details of the supplier of the safety data sheet

Supplier	The London Oil Refining Company Ltd Astonish House Unit 1 Premier Point Staithegate Lane Bradford, BD6 1DW, UK Tel: +44 1274 767440 (8am-4pm Mon-Fri) www.astonishcleaners.com
-----------------	--

Astonish Cleaners Europe Ltd
38 Main Street
Swords
Co. Dublin
Republic of Ireland
K67E0A2
Tel: +353 768 885288 (8am-4pm Mon-Fri)
www.astonishcleaners.eu

Contact person	info@astonish.co.uk info@astonishcleaners.eu
-----------------------	---

Manufacturer	As supplier.
---------------------	--------------

1.4. Emergency telephone number

Emergency telephone	UK - Emergency Telephone: +44 (0) 1274 767440 (8am-4pm Mon-Fri). Alternatively in UK: Contact NHS 111 Telephone 111 (24 hours a day, 7 days a week); Website 111.nhs.uk or a doctor. ROI - Emergency Telephone: +353 768 885288 (8am-4pm Mon-Fri) Poisons Information Centre of Ireland (ROI): + 353 (1) 809 2166 (8am-10pm 7 days a week)
----------------------------	--

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards	Not Classified
-------------------------	----------------

Astonish Specialist Ultimate Limescale Remover

Health hazards Eye Irrit. 2 - H319

Environmental hazards Not Classified

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements EUH208 Contains Chloromethylisothiazolinone & Methyllisothiazolinone. May produce an allergic reaction.
H319 Causes serious eye irritation.

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 eye protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313 If eye irritation persists: Get medical advice/ attention.

Supplemental label information Do not allow the product to come into contact with chlorine bleach.

Additional Labelling None

Detergent labelling < 5% non-ionic surfactants, < 5% perfumes, < 5% phosphonates, Contains d-Limonene, Chloromethylisothiazolinone & Methyllisothiazolinone

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Citric Acid Monohydrate	1-5%
CAS number: 5949-29-1	EC number: 201-069-1
	REACH registration number: 01-2119457026-42-XXXX
Classification	
Eye Irrit. 2 - H319	
Undecanol, branched and linear, ethoxylated (>5-15 EO)	1-5%
CAS number: 68439-46-3	
Classification	
Acute Tox. 4 - H302	
Eye Dam. 1 - H318	

Astonish Specialist Ultimate Limescale Remover

Butyl Diglycol 1-5% CAS number: 112-34-5 EC number: 203-961-6 REACH registration number: 01-2119475104-44-XXXX
Classification Eye Irrit. 2 - H319
Glycerol <1% CAS number: 56-81-5 EC number: 200-289-5
Classification Not Classified
2,2'-iminodiethanol <1% CAS number: 111-42-2 EC number: 203-868-0 REACH registration number: 01-2119488930-28-XXXX
Classification Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT RE 2 - H373 Aquatic Chronic 3 - H412
d-Limonene <1% CAS number: 5989-27-5 EC number: 227-813-5 REACH registration number: 01-2119529223-47-XXXX 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

Astonish Specialist Ultimate Limescale Remover

Chloromethylisothiazolinone & Methylisothiazolinone			<1%
CAS number: 55965-84-9	EC number: 611-341-5	REACH registration number: 01-2120764691-48-XXXX	
M factor (Acute) = 100	M factor (Chronic) = 100		
Classification			
Acute Tox. 3 - H301			
Acute Tox. 2 - H310			
Acute Tox. 2 - H330			
Skin Corr. 1B - H314			
Skin Sens. 1A - H317			
Aquatic Acute 1 - H400			
Aquatic Chronic 1 - H410			
Ethanol			<1%
CAS number: 64-17-5	EC number: 200-578-6	REACH registration number: 01-2119457610-43-XXXX	
Classification			
Flam. Liq. 2 - H225			
Eye Irrit. 2 - H319			

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.

Astonish Specialist Ultimate Limescale Remover

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.

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

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) Cleaning and Removing Limescale. Observe precautions in section 7.1.

SECTION 8: Exposure controls/Personal protection

Astonish Specialist Ultimate Limescale Remover

8.1. Control parameters

Occupational exposure limits

Butyl Diglycol

Long-term exposure limit (8-hour TWA): 10 ppm 67.5 mg/m³

Short-term exposure limit (15-minute): 15 ppm 101.2 mg/m³

Glycerol

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ mist

2,2'-iminodiethanol

Long-term exposure limit (8-hour TWA): WEL 13 mg/m³

Ethanol

Short-term exposure limit (15-minute): ELV (IE) 1000 ppm

WEL = Workplace Exposure Limit.

Citric Acid Monohydrate (CAS: 5949-29-1)

PNEC	<ul style="list-style-type: none"> - 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
-------------	---

Ethanol (CAS: 64-17-5)

DNEL	<p>Workers - Dermal; Long term : 343 mg/kg</p> <p>Workers - Inhalation; : 950 mg/m³</p> <p>Consumer - Inhalation; local effects: 950 mg/m³</p> <p>Consumer - Dermal; Long term : 206 mg/kg</p> <p>Consumer - Inhalation; : 114 mg/m³</p> <p>Consumer - Oral; Long term : 87 mg/kg</p>
PNEC	<ul style="list-style-type: none"> - Fresh water; 0.96 mg/l - marine water; 0.79 mg/l - Sediment (Freshwater); 3.6 mg/kg - Soil; 0.63 mg/kg

8.2. Exposure controls

Eye/face protection	Wear eye protection.
Hand protection	For prolonged contact or sensitive skin wear rubber gloves.
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	Clear colourless liquid
Colour	Colourless.
Odour	Zesty Lemon/Lime
Odour threshold	Not known.
pH	pH (concentrated solution): 1.8 - 3.2

Astonish Specialist Ultimate Limescale Remover

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	1.008 - 1.020 @ 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 Will react with chlorine bleach to produce chlorine gas

10.2. Chemical stability

Stability Stable under normal conditions.

10.3. Possibility of hazardous reactions

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

10.4. Conditions to avoid

Conditions to avoid None known.

10.5. Incompatible materials

Materials to avoid Do not mix with Chlorine Bleach

10.6. Hazardous decomposition products

Astonish Specialist Ultimate Limescale Remover

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) 17,838.94

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

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.

Astonish Specialist Ultimate Limescale Remover

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.
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.

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.
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.

Revision comments

Updated Supplier Information Updated Emergency Telephone Numbers in Section 1.4

Issued by

The London Oil Refining Company Ltd

Revision date

26/03/2021

Revision

2.2

Supersedes date

07/04/2020

SDS number

5207

Astonish Specialist Ultimate Limescale Remover

Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
H310 Fatal 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.
H373 May cause damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains Chloromethylisothiazolinone & Methylisothiazolinone. May produce an allergic reaction.