SAFETY DATA SHEET
Astonish Bathroom Cleaner

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

1.1. Product identifier

Product name Astonish Bathroom Cleaner

Product number 971601

Internal identification 9716F4V1

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

Identified uses Cleaning hard surfaces in bathrooms

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

Manufacturer As supplier.

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 Eye Irrit. 2 - H319

Environmental hazards Not Classified

2.2. Label elements

Pictogram

Signal word Warning

Hazard statements
H319 Causes serious eye irritation.
EUH208 Contains ((Chloro)methylisothiazolinone & Methyllisothiazolinone. May produce an allergic reaction.

Astonish Bathroom Cleaner

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 and eye protection.
P302+P352 IF ON SKIN: Wash with plenty of 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.
P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.
P337+P313 If eye irritation persists: Get medical advice/ attention.

Additional Labelling

UFI: V1F0-M035-EW05-2KPM

Detergent labelling

< 5% non-ionic surfactants, < 5% perfumes, Contains reaction mass of: 5-chloro-2-methyl-4-iso-thiazolin-3-one and 2-methyl-2H-isothiazol-3-one

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

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

Ethanol **<1%**

CAS number: 64-17-5 EC number: 200-578-6

Classification
Flam. Liq. 2 - H225
Eye Irrit. 2 - H319

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

Astonish Bathroom Cleaner

methanol **<1%**

CAS number: 67-56-1 EC number: 200-659-6

Classification
Flam. Liq. 2 - H225
Acute Tox. 3 - H301
Acute Tox. 3 - H311
Acute Tox. 3 - H331
STOT SE 1 - H370

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

Classification
Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
STOT RE 2 - H373
Aquatic Chronic 3 - H412

((Chloro)methylisothiazolinone & Methyllisothiazolinone **<1%**

CAS number: 55965-84-9 EC number: 611-341-5

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

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.

Astonish Bathroom Cleaner

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 Possible mild transient irritation of skin.

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.

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 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.

Astonish Bathroom Cleaner

7.3. Specific end use(s)

Specific end use(s) Cleaning hard surfaces in the bathroom. Observe precautions in section 7.1.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Ethanol

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

Sodium Hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m³

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

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
WEL = Workplace Exposure Limit

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

PNEC
- 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
Workers - Dermal; Long term : 343 mg/kg
Workers - Inhalation; : 950 mg/m³
Consumer - Inhalation; local effects: 950 mg/m³
Consumer - Dermal; Long term : 206 mg/kg
Consumer - Inhalation; : 114 mg/m³
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)

Astonish Bathroom Cleaner

DNEL	Workers - Dermal; Short term systemic effects: 40 mg/kg Workers - Inhalation; Short term systemic effects: 260 mg/m³ Workers - Inhalation; Short term local effects: 260 mg/m³ Workers - Dermal; Long term systemic effects: 40 mg/kg Workers - Inhalation; Long term systemic effects: 260 mg/m³ Workers - Inhalation; Long term local effects: 260 mg/m³ Consumer - Dermal; Short term systemic effects: 8 mg/kg Consumer - Inhalation; Short term systemic effects: 50 mg/m³ Consumer - Oral; Short term systemic effects: 8 mg/kg Consumer - Inhalation; Long term local effects: 50 mg/m³ Consumer - Oral; Long term systemic effects: 8 mg/kg Consumer - Inhalation; Long term systemic effects: 50 mg/m³ Consumer - Dermal; Long term systemic effects: 8 mg/kg Consumer - Inhalation; Short term local effects: 50 mg/m³
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

Eye/face protection	Wear eye protection.
Hand protection	For users with sensitive skin, it is recommended that suitable protective gloves are worn.
Environmental exposure controls	This product does not pose a hazard in normal use when following the usage instructions.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Clear Blue liquid
Colour	Blue.
Odour	Fresh/Herbal
Odour threshold	Not known.
pH	pH (concentrated solution): 2.5 - 4.5
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)

Astonish Bathroom Cleaner

Relative density	0.997 - 1.011 @ 20°C
Bulk density	Not applicable.
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 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	None under normal conditions.

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

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 avaliable data of the ingredients the classification criteria are not met.

Acute toxicity - oral

ATE oral (mg/kg)	31,111.11

Toxicological information on ingredients.

Citric Acid Monohydrate

Acute toxicity - oral

Astonish Bathroom Cleaner

Acute toxicity oral (LD_{50} mg/kg)	5,400.0
Species	Rat
ATE oral (mg/kg)	5,400.0

Acute toxicity - dermal

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

((Chloro)methylisothiazolinone & Methyllisothiazolinone

Acute toxicity - oral

Acute toxicity oral (LD_{50} mg/kg)	4,467.0
Species	Rat
ATE oral (mg/kg)	100.0

Acute toxicity - dermal

Acute toxicity dermal (LD_{50} mg/kg)	5,000.0
Species	Rat
ATE dermal (mg/kg)	50.0

Acute toxicity - inhalation

ATE inhalation (dusts/mists mg/l)	0.05

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.

Citric Acid Monohydrate

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 48 hours: 440 mg/l, Fish
Acute toxicity - aquatic invertebrates	EC_{50}, 24 hours: 1535 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 8 days: 425 mg/l, Algae

Undecanol, branched and linear, ethoxylated (>5-15 EO)

Acute aquatic toxicity

Acute toxicity - fish	LC_{50}, 96 hours: >1 - 10 mg/l, Cyprinus carpio (Common carp)

Astonish Bathroom Cleaner

Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: >1 - 10 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: >1 - 10 mg/l, Desmodesmus subspicatus
	((Chloro)methylisothiazolinone & Methyllisothiazolinone
Acute aquatic toxicity	
LE(C)$_{50}$	0.001 < L(E)C50 ≤ 0.01
M factor (Acute)	100
Acute toxicity - fish	EC_{50}, 96 hours: 0.22 mg/l, Oncorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 0.1 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 0.048 mg/l, Pseudokirchneriella subcapitata
Acute toxicity - microorganisms	EC_{20}, 3 hours: 0.97 mg/l, Activated sludge
Chronic aquatic toxicity	
M factor (Chronic)	100

12.2. Persistence and degradability

Persistence and degradability Does not contain any components considered to be persistent. Contains detergents that satisfy the biodegradation requirements of directive 648/2004/EC. Alcohols branched/linear, ethoxylated - Readily biodegradable; >70%; 28d; aerobic; OECD Test Guideline 301A.

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is not expected.

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.

Astonish Bathroom Cleaner

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 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.
DNEL: Derived No Effect Level.
EC_{50}: 50% of maximal Effective Concentration.
GHS: Globally Harmonized System.
LC_{50}: Lethal Concentration to 50 % of a test population.
LD_{50}: Lethal Dose to 50% of a test population (Median Lethal Dose).
NOEC: No Observed Effect Concentration.
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.

Astonish Bathroom Cleaner

Revision comments	Revised formulation. Revised Internal Identification and Revision Numbering.
Issued by	The London Oil Refining Company Ltd
Revision date	16/07/2019
Revision	4.1
Supersedes date	22/08/2018
SDS number	4957
Hazard statements in full	H225 Highly flammable liquid and vapour. H290 May be corrosive to metals. H301 Toxic if swallowed. H302 Harmful if swallowed. H310 Fatal in contact with skin. 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. H370 Causes damage to organs . 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 ((Chloro)methylisothiazolinone & Methyllisothiazolinone. May produce an allergic reaction.