

**SAFETY DATA SHEET****4 in 1 Disinfectant Spray****SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

Product name 4 in 1 Disinfectant Spray
Internal identification F7V1

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

Identified uses Cleaning hard surfaces around the home with antibacterial action.

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)

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification****Physical hazards**

Not Classified

Health hazards

Not Classified

Environmental hazards

Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC)

R52/53

2.2. Label elements**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
P102 Keep out of reach of children.
P103 Read label before use.

Detergent labelling < 5% cationic surfactants, < 5% non-ionic surfactants, Contains Limonene

Additional Detergent Labelling < 5% Disinfectants

2.3. Other hazards

None

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

4 in 1 Disinfectant Spray

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides <1% CAS number: 68424-85-1 EC number: 270-325-2 M factor (Acute) = 10 M factor (Chronic) = 1	
Classification Met. Corr. 1 - H290 Acute Tox. 4 - H302 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) Xn; R22. C; R34. N; R50/53
Isopropanol <1% CAS number: 67-63-0 EC number: 200-661-7 REACH registration number: 01-2119457558-25-0000	
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) F; R11. Xi; R36. R67
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 Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) C; R35

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

Rinse affected area with water.

Eye contact

Rinse thoroughly with water for several minutes. If symptoms persist seek medical advice.

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

Possible mild irritation, redness and soreness.

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

4 in 1 Disinfectant Spray

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

For bigger spillages non-household spillages prevent entry into sewer or drains. The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

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.

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 hard surfaces around the home providing antibacterial action.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

Isopropanol

Long-term exposure limit (8-hour TWA): WEL 400 999

Short-term exposure limit (15-minute): WEL 500 1250

Sodium Hydroxide

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

8.2. Exposure controls

4 in 1 Disinfectant Spray

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 green liquid Slightly viscous

Odour

Pine

pH

pH (concentrated solution): 8 - 9

Initial boiling point and range

Not measured (>100°C)

Flammability (solid, gas)

Does not ignite.

Relative density

0.995 - 1.00

Viscosity

Not measured

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No reactivity hazards expected.

10.2. Chemical stability

Stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

None under normal conditions.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Materials to avoid

None known.

10.6. 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.

4 in 1 Disinfectant Spray

Toxicological information on ingredients.

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

Acute toxicity - oral

Acute toxicity oral (LD mg/kg)

795.0

Species

Rat

ATE oral (mg/kg)

795.0

Acute toxicity - dermal

Acute toxicity dermal (LD mg/kg)

1560.0

Species

Rat

Isopropanol

Acute toxicity - oral

Acute toxicity oral (LD mg/kg)

5,820.0

Species

Rat

ATE oral (mg/kg)

5,820.0

Acute toxicity - dermal

Acute toxicity dermal (LD mg/kg)

12800.0

Species

Rabbit

ATE dermal (mg/kg)

12800.0

Sodium Hydroxide

Acute toxicity - oral

Acute toxicity oral (LD mg/kg)

2,000.0

Species

Rat

SECTION 12: Ecological Information

12.1. Toxicity

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

4 in 1 Disinfectant Spray

Ecological information on ingredients.

Quaternary ammonium compounds, benzyl (C12 - C16) alkyl dimethyl, chlorides

Acute aquatic toxicity

LE(C)

0.01 < L(E)C50 ≤ 0.1

M factor (Acute)

10

Acute toxicity - fish

LC , 96 hours: 1.7 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates

EC , 48 hours: 0.03 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC , 96 hours: 0.06 mg/l, Selenastrum capricornutum

Acute toxicity - microorganisms

EC , 0.5 hour: 10 mg/l, Activated sludge

Chronic aquatic toxicity

M factor (Chronic)

1

Isopropanol

Acute toxicity - fish

LC , 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates

EC , 48 hours: 13299 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC , 72 hours: 1.000 mg/l, Desmodemus subspicatus

Acute toxicity - microorganisms

EC , : >1000 mg/l, Activated sludge

Sodium Hydroxide

Acute toxicity - fish

LC , 96 hours: 125 mg/l, Freshwater fish

Acute toxicity - aquatic invertebrates

EC , 24 hours: 76 mg/l, Daphnia magna

Acute toxicity - microorganisms

EC , 15 minute: 22 mg/l, Bacteria

12.2. Persistence and degradability

Persistence and degradability

Contains detergents that satisfy the bio-degradation requirements of directive 648/2004/EC. Alcohols branched/linear, ethoxylated - Readily biodegradable; >70%; 28d; aerobic; OECD Test Guideline 301A.

Ecological information on ingredients.

Isopropanol

Biodegradation

- Degradation 95: 21 days

12.3. Bioaccumulative potential

Not available.

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

No data available.

12.6. Other adverse effects

Not available.

4 in 1 Disinfectant Spray

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.

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 MARPOL73/78 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

Issued by The London Oil Refining Company Ltd

Revision date 20/01/2015

Revision 1

SDS number 4956

Hazard statements in full

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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.