



SAFETY DATA SHEET
LEMON REFRESH

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

1.1. Product identifier

Product name LEMON REFRESH
Product number B117

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

Identified uses A concentrated deodoriser containing a unique blend of high quality lemon fragrances and other odour neutralising ingredients. Lemon Refresh can be added to carpet and fabric extraction and shampoo cleaning solutions, and hard surface cleaning solutions.

1.3. Details of the supplier of the safety data sheet

Supplier www.prochem.co.uk
Prochem Europe Ltd
Oakcroft Road
Chessington
Surrey
KT9 1RH

Telephone: 020 8974 1515
Fax: 020 8974 1511
sales@prochem.co.uk

1.4. Emergency telephone number

Emergency telephone 020 8974 1515 (office hours 8am to 5pm Monday to Friday) Emergency Action: In the event of a medical enquiry involving this product, please contact your doctor or local hospital accident and emergency department, who may seek advice from the UK National Poisons Information Service, where our full product details are held.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards

Not Classified

Health hazards

Eye Dam. 1 - H318 Elicitation - EUH208

Environmental hazards

Aquatic Chronic 3 - H412

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

Xi;R36. R52/53.

Human health

Irritating to eyes. May cause serious eye damage. Prolonged or repeated exposure may cause the following adverse effects: skin irritation and dermatitis. Excessive inhalation of spray, mist or vapour may cause temporary respiratory irritation. Vapours may cause drowsiness and dizziness. Ingestion may cause: systemic effects Nausea, vomiting.

Environmental

Harmful to aquatic life with long lasting effects.

LEMON REFRESH

2.2. Label elements

Pictogram



Signal word

Danger

Hazard statements

EUH208 Contains Citral, d-Limonene, Citronellal. May produce an allergic reaction.
 H318 Causes serious eye damage.
 H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection/face 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.
 P310 Immediately call a POISON CENTER/doctor.
 P501 Dispose of contents / container in accordance with local / regional / national / international regulations.

Contains

Alcohols C9-11, ethoxylated

Detergent labelling

5 - < 15% non-ionic surfactants, < 5% perfumes, Contains Citral, d-Limonene, Linalool, Geraniol, Cinnamal, Citronellol

2.3. Other hazards

See section 8 for details of exposure limits.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Alcohols C9-11, ethoxylated CAS number: 68439-45-2 EC number: —	5-10%
Classification Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC or 1999/45/EC) Xn;R22. Xi;R41.
Propan-2-ol CAS number: 67-63-0 EC number: 200-661-7	5-10%
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) F;R11 Xi;R36 R67

LEMON REFRESH

Citral	<1%
CAS number: 5392-40-5 EC number: 226-394-6	
Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315	R43 Xi;R38
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
d-Limonene	<1%
CAS number: 5989-27-5 EC number: 227-813-5	
M factor (Acute) = 1 M factor (Chronic) = 1	
Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226	R10 R43 Xi;R38 N;R50/53
Skin Irrit. 2 - H315	
Skin Sens. 1 - H317	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	
Citronellal	<1%
CAS number: 106-23-0 EC number: 203-376-6	
Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315	Xi;R38. N;R51/53. R43.
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	

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

Move affected person to fresh air at once. For breathing difficulties, oxygen may be necessary. Get medical attention.

Ingestion

Give plenty of water to drink. Get medical attention. Never give anything by mouth to an unconscious person.

Skin contact

Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation

Deliberate excessive inhalation may cause headache, dizziness and breathing irritation.

Eye contact

May cause moderate to severe eye irritation. Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

LEMON REFRESH

5.1. Extinguishing media

Suitable extinguishing media

The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire. Extinguish with the following media: Water spray, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Specific hazards

No unusual fire or explosion hazards noted.

Hazardous combustion products

Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

5.3. Advice for firefighters

Special protective equipment for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions

Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

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

Wear protective clothing as described in Section 8 of this safety data sheet. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions

Store in closed original container at temperatures between 5°C and 30°C. Keep out of the reach of children.

7.3. Specific end use(s)

Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

LEMON REFRESH

Propan-2-ol

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Provide adequate ventilation.

Eye/face protection

Side shield safety glasses are recommended when handling this product.

Hand protection

Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

Respiratory protection

For situations where recommended exposure limits may be exceeded or where there is a risk of inhalation of fine spray mists, a suitable respirator face mask is recommended.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance

Clear liquid.

Colour

Yellow.

Odour

Lemon. Floral

pH

pH (concentrated solution): 8 pH (diluted solution): 8

Initial boiling point and range

100°C

Flash point

44°C CC (Closed cup). Does not sustain combustion.

Evaporation rate

Not determined.

Upper/lower flammability or explosive limits

Not applicable.

Vapour pressure

Not determined.

Vapour density

Not determined.

Relative density

1

Solubility(ies)

Soluble in water.

Partition coefficient

LEMON REFRESH

Not determined.

Viscosity

Not determined.

Explosive properties

Not applicable.

Oxidising properties

Not applicable.

9.2. Other information

Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Store in closed original container at temperatures between 5°C and 30°C. Protect from freezing and direct sunlight.

10.5. Incompatible materials

Materials to avoid

Strong acids. Strong oxidising agents.

10.6. Hazardous decomposition products

Thermal decomposition or combustion products may include the following substances: Oxides of carbon.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects

Ingestion may cause: Nausea, vomiting. Gastrointestinal symptoms, including upset stomach. Deliberate excessive inhalation may cause headache, dizziness and breathing irritation.

Acute toxicity - oral

ATE oral (mg/kg)

6,250.0

Skin corrosion/irritation

Skin corrosion/irritation Prolonged or repeated exposure may cause the following adverse effects:, skin irritation and dermatitis.

Animal data

Prolonged or repeated exposure may cause the following adverse effects: Skin irritation.

Serious eye damage/irritation

May irritate eyes. May cause serious eye damage.

Skin sensitisation

Contains Citral Limonene Linalool Citronellal Geraniol Citronellol Cinnamal

Germ cell mutagenicity

Genotoxicity - in vivo

No effects expected based upon current data.

LEMON REFRESH

Carcinogenicity

No effects expected based upon current data.

Reproductive toxicity

Reproductive toxicity - fertility

No effects expected based upon current data.

SECTION 12: Ecological Information

12.1. Toxicity

Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

Persistence and degradability

The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them at their direct request, or at the request of a detergent manufacturer.

12.3. Bioaccumulative potential

Not known.

Partition coefficient

Not determined.

12.4. Mobility in soil

Mobility

The product is soluble in water.

12.5. Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.

SECTION 14: Transport information

14.1. UN number

Not classified for transportation.

14.2. UN proper shipping name

None.

14.3. Transport hazard class(es)

ADR/RID class -

IMDG class -

14.4. Packing group

None.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

LEMON REFRESH

14.6. Special precautions for user

None.

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

National regulations

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as amended). The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information

Telephone 020 8974 1515

Revision comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 07/01/2015

Revision 3

Supersedes date 12/04/2013

Signature Aaron Saunders

Risk phrases in full

R10 Flammable.

R11 Highly flammable.

R22 Harmful if swallowed.

R36 Irritating to eyes.

R38 Irritating to skin.

R41 Risk of serious damage to eyes.

R43 May cause sensitisation by skin contact.

R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: may cause lung damage if swallowed.

R67 Vapours may cause drowsiness and dizziness.

Hazard statements in full

EUH208 Contains Citral, d-Limonene, Citronellal. May produce an allergic reaction.

LEMON REFRESH

Disclaimer

For additional information on safety, training and use of this product, contact the supplier. This product is intended for professional use only. The information given is intended to be of assistance to users but is without guarantee. Variations can occur in application and users are advised to conduct their own tests. Suggestions for use neither give nor imply any guarantee as to the intended use.