



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 No. 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 Prochem Europe Ltd
Oakcroft Road
Chessington
Surrey
KT9 1RH
Telephone: 020 8974 1515
Fax: 020 8974 1511
www.prochem.co.uk
sales@prochem.co.uk

1.4. Emergency telephone number

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 (1999/45/EEC) Xi;R36. R52/53.

Human health

Irritating to eyes. Prolonged or repeated exposure may cause: 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.

Environment

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

2.2. Label elements

Labelling



Irritant

Risk Phrases

R36 Irritating to eyes.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases

S2 Keep out of the reach of children.
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.

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P14

Contains CITRAL,CITRONELLAL,d-LIMONENE. May produce an allergic reaction.

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		5-15%
CAS-No.: 68439-45-2	EC No.:	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Eye Dam. 1 - H318	Classification (67/548/EEC) Xn;R22. Xi;R41.	
PROPAN-2-OL		5-15%
CAS-No.: 67-63-0	EC No.: 200-661-7	
Classification (EC 1272/2008) Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC) F;R11 Xi;R36 R67	
CITRAL		0.1-1%
CAS-No.: 5392-40-5	EC No.: 226-394-6	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Skin Sens. 1 - H317	Classification (67/548/EEC) R43 Xi;R38	
d-LIMONENE		0.1-1%
CAS-No.: 5989-27-5	EC No.: 227-813-5	
Classification (EC 1272/2008) Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC) R10 R43 Xi;R38 N;R50/53	
P-MENTHA-1,4(8)-DIENE		0.1-1%
CAS-No.: 586-62-9	EC No.: 209-578-0	
Classification (EC 1272/2008) Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xn;R65. N;R51/53.	

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CITRONELLAL		0.1-1%
CAS-No.: 106-23-0	EC No.: 203-376-6	
Classification (EC 1272/2008) Skin Irrit. 2 - H315 Skin Sens. 1 - H317 Aquatic Chronic 2 - H411	Classification (67/548/EEC) Xi;R38. 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

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

Ingestion

Drink plenty of water. Get medical attention. Do not give victim anything to drink if he is unconscious.

Skin contact

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

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

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.

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

Treat Symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Use: Water spray, dry powder or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

Unusual Fire & Explosion Hazards

No unusual fire or explosion hazards noted.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

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

6.2. Environmental precautions

Do not discharge onto the ground or into water courses.

6.3. Methods and material for containment and cleaning up

Collect with absorbent, non-combustible material into suitable containers. Dispose of waste and residues in accordance with local authority requirements.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13.

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SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

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

7.2. Conditions for safe storage, including any incompatibilities

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)

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

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
PROPAN-2-OL	WEL	400 ppm	999 mg/m ³	500 ppm	1250 mg/m ³	

WEL = Workplace Exposure Limit.

8.2. Exposure controls

Protective equipment



Engineering measures

Provide adequate ventilation.

Respiratory equipment

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.

Hand protection

Nitrile gloves are recommended. Protective gloves should be inspected for wear before use and replaced regularly in accordance with the manufacturers specifications.

Eye protection

Side shield safety glasses are recommended when handling this product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid.
Colour	Yellow.
Odour	Lemon. Floral
Solubility	Soluble in water.
Initial boiling point and boiling range	100°C
Relative density	1
Vapour density (air=1)	Not determined.
Vapour pressure	Not determined.
Evaporation rate	Not determined.
pH-Value, Conc. Solution	8
pH-Value, Diluted Solution	8
Viscosity	Not determined.
Flash point	44°C CC (Closed cup). Does not sustain combustion.

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Flammability Limit - Lower(%)

Not applicable.

Partition Coefficient (N-Octanol/Water)

Not determined.

Explosive properties

Not applicable.

Oxidising properties

Not applicable.

9.2. Other information

None.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions.

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 substances.

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity:

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

Skin Corrosion/Irritation:

Prolonged or repeated exposure may cause: Skin irritation.

Serious eye damage/irritation:

May irritate eyes.

Respiratory or skin sensitisation:

Contains Citral Limonene Linalool Citronellal Geraniol Citronellol Cinnamal

Germ cell mutagenicity:

No effects expected based upon current data.

Carcinogenicity:

No effects expected based upon current data.

Reproductive Toxicity:

No effects expected based upon current data.

Toxicological information on ingredients.

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PROPAN-2-OL (CAS: 67-63-0)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 2000 mg/kg Rat

Acute Toxicity (Dermal LD50)

> 2000 mg/kg Rabbit

Acute Toxicity (Inhalation LC50)

> 20 mg/l (vapours) Rat 4 hours

ALCOHOLS C9-11, ETHOXYLATED (CAS: 68439-45-2)

Acute toxicity:

Acute Toxicity (Oral LD50)

> 300 mg/kg

Acute Toxicity (Dermal LD50)

> 2000 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecological information on ingredients.

PROPAN-2-OL (CAS: 67-63-0)

Acute Toxicity - Fish

LC50 48 hours > 100 mg/l *Leuciscus idus* (Golden orfe)

EC 50, 48 Hrs, *Daphnia*, mg/l

>100

Acute Toxicity - Aquatic Plants

EC50 72 hours > 100 mg/l *Scenedesmus subspicatus*

ALCOHOLS C9-11, ETHOXYLATED (CAS: 68439-45-2)

Acute Toxicity - Fish

LC50 > 10 mg/l

Acute Toxicity - Aquatic Invertebrates

EC50 > 1 mg/l

Acute Toxicity - Aquatic Plants

IC50 > 10 mg/l

12.2. Persistence and degradability

Degradability

The surfactant(s) contained in this preparation 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

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 PBT or vPvB substances.

12.6. Other adverse effects

None known.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. 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/ADN Class -

IMDG Class -

14.4. Packing group

None.

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

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	12/04/2013
Revision	2
Supersedes date	13/08/2012
Signature	Aaron Saunders

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Risk Phrases In Full

R10	Flammable.
R22	Harmful if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R11	Highly flammable
R36	Irritating to eyes.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R41	Risk of serious damage to eyes.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R67	Vapours may cause drowsiness and dizziness.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard Statements In Full

H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H412	Harmful to aquatic life with long lasting effects.
H225	Highly flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H410	Very toxic to aquatic life with long lasting effects.
H400	Very toxic to aquatic life.

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.