



**Product Specification &**

**SAFETY DATA SHEET**

CHIP / EC FORMAT 91/155/EEC AMD 93/112/EC AMD 2001/58/EC

**B117**  
**LEMON REFRESH**



**SECTION 1: IDENTIFICATION OF THE PREPARATION AND COMPANY**

**Product Name:** LEMON REFRESH **Product Code:** B117  
**Manufacturer:** Prochem Europe Ltd., Oakcroft Road, Chessington, Surrey KT9 1RH, UK. Telephone No: 020 8974 1515 (UK) +44 20 8974 1515 (EC) Chemical Product Manager E, H & S  
**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.

**Product Description & Directions For Use:**

A concentrated deodoriser and air conditioner 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, hard surface cleaning solutions or it can be diluted with water and used to freshen any wet cleanable surface.

**Cleaning solution additive:** Add 5 to 10 ml. of B117 Lemon Refresh per litre of "ready-to-use" cleaning solution. **General use:** Dilute 10ml. of B117 Lemon Refresh per litre of water (1 to 100) and apply by sprayer. Blot or wipe treated surface with towel if required. **Always pretest surface to be cleaned with diluted solutions before proceeding.**

**SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS**

SUBSTANCE	RISK (See Section 16)	EINECS NO.	CAS NO.	% W/W (EC RANGE)
Water	None assigned	None	None	More than 30%
Isopropanol	F R11 Xi R36 R67	200-661-7	67-63-0	5 to 15%
Non-ionic surfactant	Xn R22 Xi R41 N R50	None	68131-39-5	Less than 5%
Fragrance (IFRA certified)	Xn R65 R43 N R51/53	None	None	Less than 5%
Anionic surfactant	Xi R41 R38	271-557-7	68955-19-1	Less than 5%
Non-ionic surfactant	Xi R41	None	68439-45-2	Less than 5%
Fragrance (IFRA certified)	-	-	-	Less than 1%
Preservative	-	-	-	Less than 1%

**SECTION 3: HAZARDS IDENTIFICATION**

**Classification:** Irritating to eyes.  
**Eye Contact:** Contact with concentrate may cause moderate eye irritation.  
**Skin Contact:** Prolonged or repeated contact with concentrate may cause mild irritation and possible dermatitis.  
**Inhalation:** None expected in normal use dilutions. Breathing spray mist may cause irritation of the nose and throat. Excessive inhalation of concentrate may cause drowsiness and dizziness.  
**Ingestion:** Ingestion of concentrate may produce nausea and possible systemic effects from isopropanol.  
**Environment:** Contains less than 5% alcohol ethoxylate which is classified as very toxic to aquatic organisms. Raw materials are biodegradable. See Ecological Information for further details.

**SECTION 4: FIRST AID MEASURES**

**Eye Contact:** Flush immediately with water for 15 minutes, then seek medical attention if irritation persists.  
**Skin Contact:** Flush skin with plenty of water. Seek medical attention if any skin irritation persists.  
**Inhalation:** Get fresh air and seek medical assistance if breathing is difficult.  
**Ingestion:** If small amounts are ingested, drink water and seek immediate medical attention. Do not give anything by mouth if patient is unconscious. **DO NOT INDUCE VOMITING.**

**SECTION 5: FIRE FIGHTING MEASURES**

**Extinguishing Media:** Product is not flammable. Use water, carbon dioxide, dry powder extinguisher, or other media appropriate for materials actually involved in fire.  
**Fire/Explosion Hazards:** No explosion hazard.  
**Decomposition Products:** Exposure to fire may liberate carbon dioxide, carbon monoxide, water and other unidentified thermal decomposition products from this product or its packaging.  
**Special Protective Equipment:** Self contained breathing apparatus and full protective clothing.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Personal Protection:** Protective clothing, nitrile butyl rubber gloves, chemical splash goggles.  
**Containment and Disposal:** Large spills should be treated with dry absorbent and disposed at legal waste disposal site. Small spills can be flushed with water to sewage drain linked to waste treatment facility.

**SECTION 7: HANDLING AND STORAGE**

**Handling Precautions:** Wear nitrile butyl rubber gloves and safety glasses when handling concentrate.  
**Storage Precautions:** Avoid extremes of temperature. Keep out of reach of children. Keep in original container.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits:** Isopropanol OES TWA 8hrs 400ppm  
 OES-STEL 15 mins 500ppm

**Environmental Controls:** For additional guidance, contact ENVIROWISE at [www.envirowise.gov.uk](http://www.envirowise.gov.uk) or telephone 0800 585794

**Eye Protection:** Side shield safety glasses are recommended when handling concentrate.

**Protective Clothing:** Standard work clothing and nitrile butyl rubber gloves. 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 dust mask is recommended.

**Ventilation:** Normal air circulation.

**Hygiene:** Wash hands and clothing after use or spill. Do not eat or drink when handling chemicals.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance/Colour/State:** Moderate foam clear yellow liquid

**Odour:** Lemon floral

**pH Concentrate:** 7.5 **pH Diluted:** 7.5

**Boiling Point / Range °C:** 100

**Flash Point °C:** None **Method:** Not applicable

**Flammability Limit %:** Not applicable

**Explosive Properties:** Not applicable

**Oxidising Properties:** Not applicable

**Vapour Pressure:** Not determined

**Relative Density (Water = 1):** 0.99 **Solubility:** 100%

**Partition Coefficient (N-octanol / Water):** Not determined

**Viscosity:** Not determined

**Vapour Density:** Not determined

**Evaporation Rate:** Not determined

**% Active:** 20.5

**% Solids:** 12

#### **SECTION 10: STABILITY AND REACTIVITY**

**Stability:** Stable

**Conditions to Avoid:** Extremes of temperature.

**Incompatibility (Materials to Avoid):** Strong oxidising agents.

**Hazardous Decomposition Products:** Exposure to fire may liberate carbon dioxide, carbon monoxide, water and other unidentified thermal decomposition products from this product or its packaging.

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

**Eye Contact:** Contact with concentrate may produce moderate transient irritation if not promptly rinsed.

**Skin Contact:** Possible dermatitis from prolonged or repeated contact with concentrate or working solution.

**Inhalation:** No health effects expected. Deliberate or excessive exposure may produce CNS effects from isopropanol.

**Ingestion:** Nausea, gastric irritation, possible systemic effects from isopropanol if large enough dose.

**Acute and Chronic Effects:**

**Acute Toxicity:** LD50 >2000mg/Kg (Oral-rat) (Alcohol ethoxylate)

LD50 >2000mg/Kg (Skin-rat) (Alcohol ethoxylate)

LD50 4700 to 5500 mg/kg (Oral-rat) (Isopropanol)

LD50 12800 mg/kg (Skin-rabbit) (Isopropanol)

**Corrosivity / Irritation:** Skin, eye and respiratory

**Sensitisation:** Contains less than 0.1% Citral, Citronellol and Geraniol which are classified as may cause sensitisation by skin contact.

**Repeated Dose Toxicity:** Not established

**Mutagenicity:** None

**Carcinogenicity:** None

**Teratogenicity:** None

#### **SECTION 12: ECOLOGICAL INFORMATION**

**Ecotoxicity:** Low aquatic and mammalian toxicity.

96h LC50 9600mg/l (Fathead Minnow) (Isopropanol)

48h EC50 4600mg/l (Daphnia) (Isopropanol)

Contains less than 5% alcohol ethoxylate which is classified as very toxic to aquatic organisms.

LC50 fish 10mg/l (alcohol ethoxylate)

LC50 algae 1mg/l (alcohol ethoxylate)

LC50 daphnia 10mg/l (alcohol ethoxylate)

**Mobility:** Soluble in water

**Persistence and Degradability:** The raw material ingredients in this product are biodegradable within the scope of current EC

legislation. The major packaging materials of polyethylene and fibreboard are recyclable.

**Bioaccumulative Potential:** None known

**Other Effects:** None known or no relevant data available for substances in this preparation.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste cleaning effluent should be discharged to a sewage drain, which is linked to a local sewage and waste treatment facility.

Empty containers should be rinsed with water then crushed and disposed of at legal waste disposal site.

Contact local Environment Agency office for waste holder requirements.

#### **SECTION 14: TRANSPORT INFORMATION**

**UN No:** None

**Classification:** Not classified as hazardous for transport

**Proper Shipping Name:** None

**Packing Group:** None

**Road (ADR):** None

**Sea (IMDG):** None

**Air (ICAO / IATA):** None

**Rail (RID):** None

#### **SECTION 15: REGULATORY INFORMATION**

**Classification:** Xi IRRITANT

**Risk Phrases**

R36 Irritating to eyes

**Safety Phrases**

S2 Keep out of 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

The information given has been compiled with reference to the **CHEMICALS (HAZARD INFORMATION AND PACKAGING FOR SUPPLY) REGULATIONS (CHIP 3) 2002** (as amended), the **CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS (COSHH) 2002** (as amended) and the **MANAGEMENT OF HEALTH AND SAFETY AT WORK REGULATIONS 1999** (as amended).

This safety data sheet does not constitute the users own assessment of workplace risk as required by other health and safety regulations.

#### **SECTION 16: OTHER INFORMATION**

**Risk Phrases:** 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 Very toxic to aquatic organisms. R51 Toxic to aquatic organisms. R53 May cause long-term adverse effects in the aquatic environment. R67 Vapours may cause drowsiness and dizziness.

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.

**Revisions:** Replaces SDS B117 Issue / Revision Date 01/01/03 Revised Sections: 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 15, 16